

CDKL2 protein-GST fusion SDS

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SECTION 1: IDENTIFICATION
1.1 Product Identifier

Product Form: Mixture

Product Name: CDKL2 protein-GST fusion

Product Codes: 009-001-R67S/009-001-R67

1.2 Intended Use of the Product

For research use only

1.3 Name, Address, and telephone of the Responsible Party

Company:

Rockland Immunochemicals, Inc.

321 Jones Boulevard

Pottstown, PA 19464

(800) 656-7625

1.4 Emergency Telephone Number

CHEMTREC: 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: HAZARDS IDENTIFICATION
2.1 Classification of the Substance or Mixture

GHS-US Classification: Skin irritation (Category 3); Eye irritation (Category 2B).

2.2 Label Elements

GHS-US Labeling:

Hazard Pictogram: N/A

Signal Word: Warning

Hazard Statements: Causes mild skin irritation (H316); Causes eye irritation (H320).

Precautionary Statements: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338).

2.3 Other Hazards

No data available

2.4 Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
3.1 Substance

Not applicable

3.2 Mixture

Name	Product Identifier	%
Glycerol	(CAS No) 56-81-5	<=25%
Tris-HCl; Tris (hydroxymethyl) aminomethane hydrochloride	(CAS No) 1185-53-1	<=0.8

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Glutathione	(CAS No) 70-18-8	<=0.3
Sodium chloride	(CAS No) 7647-14-5	<=0.3
Dithiothreitol	(CAS No) 3483-12-3	<=0.004
Ethylenediaminetetraacetic acid	(CAS No) 6381-92-6	<=0.004
Phenylmethanesulfonyl fluoride	(CAS No) 329-98-6	<=0.002

SECTION 4: FIRST AID MEASURES
4.1 Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

After Inhalation: When symptoms occur, go into open air, and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

After Skin Contact: Immediately remove any contaminated clothing.

After 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.

After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

General: None known.

After Inhalation: None known.

After Skin Contact: None known.

After Eye Contact: None known.

After Ingestion: None known.

Chronic Symptoms: None known.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5. FIRE-FIGHTING MEASURES
5.1 Extinguishing Media

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable Extinguishing Media: For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special Hazards Arising from the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3 Advice for Firefighters

Precautionary Measures - Fire: Exercise caution when fighting any chemical fire. Under fire conditions closed containers may rupture or explode.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Do not allow run-off from firefighting to enter drains or water courses.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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6.1 Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Apply standard laboratory practices and personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.

6.1.1 For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

6.1.2 For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2 Environmental Precautions

Do not let product enter drains.

6.3 Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Absorb on sand or vermiculite and place in closed containers for disposal.

6.4 Reference to Other Sections

See Heading 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Additional Hazards When Processed: None

Precautions for Safe Handling: For precautions see section 2.2. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store product at -70°C . Keep container upright and tightly closed.

Incompatible Products: N/A

7.3 Specific End Use(s)

For research use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Glycerol (CAS 56-81-5)		
Values	Control Parameters	Regulations
TWA	10mg/m ³	USA
TWA	10mg/m ³ for mist	British Columbia, Canada
TWA	3 mg/m ³ for respirable mist	British Columbia, Canada
TWA	10mg/m ³	Alberta, Canada
TWAEV	10mg/m ³	Ontario and Quebec, Canada

8.2 Exposure Controls

Appropriate Engineering Controls: Apply adequate ventilation including mechanical exhaust or laboratory fume hood. Follow standard laboratory practices.

Personal Protective Equipment: Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin, or clothing.

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Materials for Protective Clothing: Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin, or clothing.

Hand Protection: Wear gloves and use proper glove removal technique to avoid skin contact. Discard gloves after use by following the applicable laboratory regulations. Wash and dry hands.

Eye and Face Protection: Safety goggles with side-shields approved under appropriate government standards.

Skin and Body Protection: Use appropriate clothing, footwear, and any additional protection measures to protect from splashing or contamination.

Respiratory Protection: Use appropriate respirator if there is inadequate ventilation by following the government standards.

Environmental Exposure Controls: No special environmental precautions required.

Other Information: When using, do not eat, drink, or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State: Colorless fluid

Appearance: No data available

Odor: No data available

Odor Threshold: No data available

pH: No data available

Evaporation Rate: No data available

Melting Point: No data available

Freezing Point: No data available

Boiling Point: 100 °C

Flash Point: > 100 °C

Auto-ignition Temperature: Product is not self-igniting.

Decomposition Temperature: No data available

Flammability (solid, gas): Not flammable

Lower Flammable Limit: No data available

Upper Flammable Limit: No data available

Vapor Pressure: No data available

Relative Vapor Density at 20°C: No data available

Relative Density: No data available

Specific Gravity: No data available

Solubility: No data available

Partition Coefficient: N-Octanol/Water: No data available

Viscosity: No data available

9.2 Other Information

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous reactions will not occur under normal conditions.

10.2 Chemical Stability

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

10.3 Possibility of Hazardous Reactions

No dangerous reactions known.

10.4 Conditions to Avoid

Heat and moisture.

10.5 Incompatible Materials

Strong acids/bases, strong oxidizing/reducing agents.

10.6 Hazardous Decomposition Products

Carbon oxides may formed under fire conditions; no known decomposition information for other decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects**

Acute toxicity: Not information available.

Chronic Toxicity Irritation: No information available.

Sensitization: No information available.

Carcinogenicity: No components are listed in IARC, or NTP, or OSHA, or ACGIH.

Mutagenic effects: No information available.

Reproductive effects: No information available.

Developmental effects: No information available.

Teratogenicity: No information available.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

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

No data available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste Treatment Methods**

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: None

Ecology – Waste Materials: Avoid release to the environment.

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 several variables that may or may not have been known at the time the SDS was issued.

14.1 In Accordance with DOT

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Not dangerous goods.

14.2 In Accordance with IMDG

Not dangerous goods.

14.3 In Accordance with IATA

Not dangerous goods.

14.4 In Accordance with TDG

Not dangerous goods.

SECTION 15: REGULATORY INFORMATION

- GHS label elements: Not applicable.
- Signal word: Not applicable.
- Hazard statements: Not applicable

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

Date of Preparation or Latest Revision: 06/05/2023

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.