

Product Name: Recombinant Human Hrk Western Blot Standard Protein

Reviewed on: 7 June 2016

1. Identification of Substance:

- Other means of identification / Catalog Number: WBC013
- GHS product identifier: Recombinant Human Hrk Western Blot Standard Protein
- Application of the substance / the preparation: For Research Use Only
- Manufacturer/Supplier: Bio-technie/R&D Systems™
614 McKinley Place N.E.
Minneapolis, MN 55413
USA
- For product related questions call: 1-800-343-7475. In Europe call: +44(0)1235-529449.
- Emergency information: In case of a chemical emergency, spill, fire, or exposure, call R&D Systems at (612) 379-2956 or (800)-343-7475. In Europe call +44(0)1235-529449.

2. Hazard Identification:

- Classification: Regulation (EC) No. 1272/2008 [CLP/GHS]: Sodium Dodecyl Sulfate:
Acute Tox. Oral 4
Acute Tox. Dermal, 4
Skin Irrit. 2
Eye Irrit. 2B
Specific Target Organ Toxicity (Single Exposure), 3
- Signal Word: WARNING
- Hazard statements: H302: Harmful if swallowed. H312: Harmful in contact with skin. H315: Causes skin irritation. H320: Causes eye irritation. H335: May cause respiratory irritation.
- Precautionary statements: P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing. P261: Avoid breathing dust/fumes/gas/mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area.
- Response: IF ON SKIN (or hair): Wash with plenty of water. Call a POISON CENTER or doctor if you feel unwell. Specific treatment is indicated in this MSDS. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- Classification according to Directive 67/548/EEC:
- Hazard Symbol / R-Phrase / S-Phrase: Xn: Harmful. R21/22: Harmful if in contact with skin or if swallowed. R36/37/38, Irritating to eyes, respiratory system and skin. S26: In case of contact with eyes, rinse immediately with plenty of water and see medical advice. S36/37: Wear suitable protective clothing and gloves.
- Other hazards: none



3. Information on Ingredients:

Description: Sodium Dodecyl Sulfate, Sodium Lauryl Sulfate, or SDS. Formula: C₁₂H₂₅O₄S.Na. Molecular Mass: 288.4

Contains	CAS No.	EC-No.	Index-No.	Content
Sodium Dodecyl Sulfate	151-21-3	205-788-1	-	=<10%

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4. First Aid Measures:

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for at least 15 minutes under running water. Then consult a doctor.
- **After swallowing:** Rinse mouth with water. Immediately seek medical attention and appropriate follow-up.

5. Fire Fighting Measures:

- **Suitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Hazards from the substance or mixture:** Combustible. In case of fire, irritating or toxic fumes or gases may be formed.
- **Special precautions for fire-fighters:** Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental Release Measures:

- **Person-related safety precautions:** Use appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
- **Measures for environmental protection:** Keep away from drains.
- **Measures for containment and cleaning:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and Storage:

- **Precautions for safe handling:** Avoid inhalation of dust or mist. Use normal measures for preventive fire protection.
- **Information about protection against explosions and fires:** Combustible. May give off irritating or toxic gases.
- **Conditions for safe storage:** Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls and Personal Protection:

- **Control parameters:** Contains no substances with occupational exposure limit values
- **Appropriate engineering controls:** Use with adequate ventilation including local extraction. Ensure that eyewash stations and safety showers are close to the workstation location.
- **Individual protection measures:** Wash hands thoroughly after handling chemical products and before eating, smoking or using the toilet. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
- **Eye/face protection:** Wear approved safety goggles.
- **Skin/hand protection:** Handle with protective gloves, plastic or rubber. 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.
- **Body protection:** Wear suitable protective clothing as protection against splashing or contamination.
- **Other skin protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.
- **Respiratory protection:** In case of inadequate ventilation, use a suitable respirator. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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9. Physical and Chemical Properties:

▪ Appearance: Clear liquid.	▪ Upper/lower flammability or explosive limits: Not available.
▪ Odor: Little to none.	▪ Vapor pressure/density: Not available.
▪ Odor threshold: Not available.	▪ Relative Density: Not available.
▪ pH: Not available.	▪ Solubility in/Miscibility with Water: Not available.
▪ Melting point/freezing point: Not available.	▪ Partition coefficient: noctanol/water: Not available
▪ Boiling point/Boiling range: Not available.	▪ Auto igniting: Product is not self igniting.
▪ Flash point: Not available.	▪ Decomposition temperature: Not available.
▪ Evaporation rate: Not available.	▪ Viscosity: Not available.
▪ Flammability: Not available.	

10. Stability and Reactivity:

- **Reactivity:** Reacts with strong oxidants and strong acids.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.
- **Conditions to avoid:** Acids, oxidants, heat.
- **Incompatible materials:**
- **Hazardous decomposition products:** Products formed under fire conditions: toxic and corrosive gases including sulfur oxides.

11. Toxicological Information:

- **Acute toxicity:** Oral LD50: 1,200 mg/kg (rat)
Skin LD50: 600 mg/kg (rabbit)
- **Skin corrosion/irritation:** Redness.
- **Serious eye damage/irritation:** Redness and pain.
- **Respiratory or skin sensitization:** Sore throat and cough.
- **Germ cell mutagenicity:** No data available
- **Carcinogenicity:** No data available
- **Reproductive toxicity:** No data available
- **Specific target organ toxicity (STOT) -single exposure:** No data available
- **Specific target organ toxicity (STOT) -repeated exposure:** No data available
- **Aspiration hazard:** No data available.
- **Information on likely routes of exposure:** Routes of entry anticipated; oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics:**
 - Inhalation:** Sore throat and cough.
 - Ingestion:** Nausea, vomiting and diarrhea.
 - Skin contact:** Causes redness and irritation.
- **Eye contact:** Causes eye irritation, redness and pain.
- **Delayed and immediate effects and also chronic effects from short and long term exposure:**
 - Short term exposure: Potential immediate effects:** Not available. **Potential delayed effects:** Not available.
 - Long term exposure: Potential immediate effects:** Not available. **Potential delayed effects:** Not available.
- **Effects of chronic exposure:** Not available
- **Numerical measures of toxicity:** Not available
- **Other Information:** NA

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12. Ecological Information:

- **Ecotoxicity:** Toxic to aquatic life. LC50, 96 Hrs, Fish *Macrurus vittatus* – 1.39 mg/L; LC50, 96 Hrs, *Daphnia* – 0.72 mg/L
- **Biodegradability:** Insoluble in water.
- **Bioaccumulative potential:** No data available.
- **Mobility in soil:** No data available.
- **Other adverse effects:** No data available.

13. Disposal Considerations:

- **Disposal methods:** Dispose of waste in accordance to applicable national, regional, or local regulations.
- **Contaminated packaging:** Dispose in the same manner as unused product.
- **Special precautions:** Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilt material to soil, waterways, drains and sewers.

14. Transportation Information:

- **ADR/RID ADN/ADNR IMDG IATA/DOT:** Not applicable.
- **UN Number:** Not applicable.
- **DOT regulations:** Not applicable.
- **Hazard class:** Not applicable.
- **Land transport ADR/RID (cross-border):** Not applicable.
- **Maritime transport IMDG:** Not applicable.
- **Marine pollutant:** Not applicable.
- **Air transport ICAO-TI and IATA-DGR:** Not applicable.
- **Transport/Additional information:** Not applicable.

15. Regulations:

- **US Federal and State Regulations**
 - TSCA (Toxic Substances Control Act): Not applicable.
 - SARA 313: Not applicable.
 - SARA 311/312 Hazards: Not applicable.
 - CERCLA Reportable Quantity: Not applicable.
 - California Proposition 65: Not applicable.
- **European Union**
 - This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

16. Other Information:

- **Notice to reader:** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.