# Safety Data Sheet (SDS)

## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Catalog Code Number:</th>
<th>4136-v/4136-s</th>
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</thead>
<tbody>
<tr>
<td><strong>Product Name:</strong></td>
<td>CRF (Human, Rat)</td>
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<tr>
<td><strong>Supplier's Name:</strong></td>
<td>Peptide Institute, Inc.</td>
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<tr>
<td><strong>Address:</strong></td>
<td>7-2-9 Saito-Asagi, Ibaraki-Shi, Osaka 567-0085, Japan</td>
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<td><strong>Phone Number:</strong></td>
<td>81-72-643-4411</td>
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<td><strong>Fax Number:</strong></td>
<td>81-72-643-4422</td>
</tr>
<tr>
<td><strong>Creation Date:</strong></td>
<td>November 12, 2014</td>
</tr>
<tr>
<td><strong>Revised:</strong></td>
<td>November 21, 2018 (ver.2)</td>
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## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture
- **GHS classification:** Not a hazardous substance
- **Other hazards:** No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Single Substance or Mixture: Single Substance

### Common Name:
CRF (Human, Rat)  
**Synonym:** Corticotropin Releasing Factor (Human, Rat)  
CRH / Corticotropin Releasing Hormone (Human, Rat)

### Structure:

### Molecular Formula:
C₂₀₈H₃₄₄N₆₀O₆₃S₂ (M.W. 4757.5)

### CAS Registry Number:
86784-80-7

### EINECS No.:
- UN No. & Hazard Class: This material is not classified as hazardous goods.

## 4. FIRST AID MEASURES

### Inhalation:
If inhaled, remove person to fresh air and keep comfortable for breathing. Wash your mouth and nasal cavity thoroughly with clean water and get medical attention.

### Skin contact:
In case of skin contact, wash with plenty of water. Call a doctor, if you feel unwell.

### Eye contact:
In case of contact with eyes, wash with plenty of water. Call a doctor, if you feel unwell.

### Ingestion:
If swallowed, rinse mouth. Call a doctor, if you feel unwell.

## 5. FIRE FIGHTING MEASURES

### Extinguishing media:
Water spray, carbon dioxide, dry chemical powder, or appropriate form.

### Special extinguishing method:
Complies with fire extinguishing method in normal fire.

### Specific hazards arising from the chemical product:
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:
Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

### Environmental precautions:
SDS No. 4136 CRF (Human, Rat)
To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminant and methods and materials for cleaning up:
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

7. HANDLING AND STORAGE

Handling: Avoid inhalation. Avoid contact with eyes, skin and clothing.
Storage: Keep container tightly closed. Store in a cool dry place. Recommended Storage -20 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineer controls: No data available
Exposure limits: No data available
Personal protective equipment:
Wear appropriate respirator, chemical-resistant gloves, safety goggles, other protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White amorphous powder
Reactivity in Water: No reactivity
Solubility: Soluble in 0.1% AcOH

10. STABILITY AND REACTIVITY

Stability: No data available
Reactivity: No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity: No data available
Skin irritation/corrosion: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Reproductive cell mutagenicity: No data available
Carcinogenicity: No data available
Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available

13. DISPOSAL CONSIDERATIONS

Observe all federal, state and local environmental regulations.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

UN number and UN classification: This material is not classified as hazardous goods.
15. REGULATORY INFORMATION

Not applicable.
Caution: The chemical, physical and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

16. OTHER INFORMATION

Disclaimer: NOT FOR USE IN HUMANS. For R&D use only. Not for drug, household or other uses.

Reference:
1. JCIA: Japan Chemical Industry Association GHS support Guidelines (June, 2012)
2. JIS Z7253:2012 Hazard communication of chemicals based on GHS-Labelling and Safety Data Sheet (SDS)
3. NITE: National Institute of Technology and Evaluation (JAPAN) web site

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