

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

- Trade Name:
- Manufacturer:
- Phone: Fax:

Signal Enhancer HIKARI Nacalai USA, Inc. 10225 Barnes Canyon Rd., Suite A103 San Diego, CA 92121, USA (858) 404-0403 (858) 404-0408

2. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Characterization: | Casein [CAS No. 9000-71-9] ≤ 0.1% |
|----------------------------|--|
| | Sodium Chloride [CAS No. 7647-14-5] $\leq 2.0\%$ |

3. HAZARDS IDENTIFICATION

| • | Most Important Hazards: | May cause eye and skin irritation. May cause respiratory |
|---|-------------------------|--|
| | | and digestive tract irritation. |
| • | Specific Hazards: | Not applicable. |

4. FIRST AID MEASURES

| In case of irritation by inhaling this product, move |
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| affected person to fresh air and await recovery. If |
| irritation persists, seek immediate medical attention. |
| Wash with clean water, immediately. |
| Flush eyes with clean water for more than 15 min and seek medical attention. |
| Induce vomiting. If indisposition continues, seek medical attention. |
| |

5. FIRE FIGHTING MEASURES

• Extinguishing agents: Water, Carbon Dioxide, Foam, Dry Chemical Powder.

6. ACCIDENTAL RELEASE MEASURES

| ٠ | Personal Precautions: | Avoid substance contact. |
|---|----------------------------|---|
| • | Environmental Precautions: | Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. |
| • | Method for Cleaning up: | The same as the above. |



7. HANDLING AND STORAGE HANDLING:

• Technical Measures:

• Precautions:

• Safe Handling Advice:

• Incompatible Products:

STORAGE:

goggles. Set up good ventilation and exhaust system in the work area. Keep away from fire or heat.

Wear a gas mask, rubber gloves and chemical safety

Good laboratory technique should be used when handling this product.

- Technical Measures: Store in the laboratory bottle.
- Storage Conditions: Store at about 4 C.

Oxidizers.

• Packaging Materials: Store in the original pakage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION PERSONAL PROTECTIVE EQUIPMENT:

| • | Respiratory Protection: | Wear a gas mask. Set up good ventilation and exhaust system in the work area. |
|---|---------------------------|---|
| • | Hand Protection: | Chemical safety gloves. |
| • | Eye Protection: | Chemical safety gloves. |
| ٠ | Skin and Body Protection: | Long sleeves to prevent contact with skin. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| • Physical State: | Liquid |
|----------------------------|------------------|
| · Flysical State. | Liquid |
| Color: | Colorless |
| • Odor: | None |
| • pH: | 7.0-8.5 |
| Boiling Point: | Not applicable |
| Melting Point: | Not applicable |
| Decomposition Temperature: | Not applicable |
| Flash Point: | Not applicable |
| • Density: | Not applicable |
| Solubility: | Soluble in water |

10. STABILITY AND REACTIVITY

• Stability: Stable under normal handling and storage conditions.

Possible Hazardous Reactions:

- None Not applicable
- Conditions to Avoid: Not applicable
 Material to Avoid: Strong acids, strong alkalines and strong oxidizers.
- Hazardous Decomposition: Not applicable



11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Not applicable(probably very low)
Local Effects: Not applicable(probably very low)

12. ECOLOGICAL INFORMATION

Mobility: Not applicable
Persistence / Degradability: Not applicable
Bioaccumulation: Not applicable

13. DISPOSAL CONSIDERATIONS

| • | Waste from Residues: | Dispose of in accordance with all applicable local and |
|---|-------------------------|--|
| | | national laws and regulations. |
| • | Contaminated Packaging: | Dispose in the same way as the material. |

14. TRANSPORT INFORMATION

• Specific Precautions: To prevent packages from breaking, handle with care.

INTERNATIONAL REGULATIONS:

• UN Classification Number: Not classified. Follow all of the laws and regulations in your respective country.

15. REGULATIONS

• Follow all of the laws and regulations in your country.

*The information in this MSDS, to the best of our knowledge, is accurate and correct. However, Nacalai USA, Inc. makes no warranty and assumes no liability whatsoever in connection with any use of this information.