

Effective Date: September 29, 2005

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY INFORMATION

**Product Name:** Anti-4-hydroxy-2-hexenal (HHE)  
monoclonal antibody

**Product Number:** N213730

**Manufacture:** NOF Corporation,  
Life science products division

**Address:** Yebisu garden place tower, 20-3 Ebisu 4-chome,  
shibuya-ku Tokyo, 150-6109 Japan  
TEL +81-3-5424-6771 FAX +81-3-5424-6802

**Emergency Phone:** +81-29-847-8892 (Tsukuba Corporate Research Laboratory)

## 2. COMPOSITION / INFORMATION ON INGREDIENT

Substance Name	CAS Number
Antibody with less than 0.1% Sodium Azide	None
Ingredient Name	CAS Number
The hazards identified with this product are those associated with following component:	
Sodium Azide	26628-22-8 < 0.1%

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

Sodium azide may react with lead and copper plumbing to form highly explosive metal azides

### HMIS Rating

**Health:** 0  
**Flammability:** 0  
**Reactivity:** 1

### NFPA Rating

**Health:** 0  
**Flammability:** 0  
**Reactivity:** 1

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## 4. FIRST AID MEASURE

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### **Oral Exposure:**

If swallowed, wash out mouth with water provided person is conscious.

Call a physician immediately.

### **Inhalation Exposure:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration.

Call a physician immediately.

### **Dermal Exposure:**

In case of skin exposure, wash out with water for at least 15 minutes.

Remove contaminated clothing. Call a physician immediately.

### **Eye Exposure:**

In case of eye exposure, wash out with water for at least 15 minutes.

Call a physician immediately.

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## 5. FIRE FIGHTING MEASURE

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### **Explosion Hazards:**

Azide reacts with lead, copper, mercury, silver and gold, and form explosive

Compounds. Azide reacts with metal halides to form metal azide halides.

In compatible with chromyl chloride, hydrazine, bromine, carbon disulfide,

Dimethyl sulfate, dibromomalonitrile.

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**Flammability:** N/A

**Extinguishing Media:** Water spray, carbon dioxide or dry chemical powder.

**Firefighting:** Wear self-contained breathing apparatus and protective clothing to prevent with skin and eyes.

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## 6. ACCIDENTAL RELEASE MEASURES

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### **Procedure of Personal Precautions:**

Wear respirator, chemical safety goggles, rubber boots and rubber gloves.

### **Clean-Up Procedure:**

Spilled material should be wiped up.

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## 7. HANDLING AND STORAGE

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Store below -20 degree C.

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## 8. EXPOSURE CONTROLS

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### Engineering Controls:

Safety shower and eye bath. Mechanical exhaust required.

### Personal Protective Equipment:

**Respiratory:** respirator.

**Hand:** rubber gloves.

**Eye:** goggles:

### General Hygiene Measures:

Wash thoroughly after handling. Wash contaminated clothing before re-use.

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## 9. PHYSICAL / CHEMICAL PROPERTIES

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**Appearance:** Lyophilized Powder

### Property Value at Room Temperature:

**Molecular Weight** N/A

**PH** N/A

**BP** N/A

**MP** N/A

**Freezing Point** N/A

**Vapor Pressure** N/A

**Vapor Density** N/A

**Saturated Vapor Pressure** N/A

**SG/ Density:** N/A

**Bulk Density:** N/A

**Odor Threshold:** N/A

**Volatile:** N/A

**VOC Content:** N/A

**Water Content:** N/A

**Solvent Content:** N/A

**Evaporation Rate:** N/A

**Viscosity:** N/A

**Surface Tension:** N/A

**Partition Coefficient:** N/A

**Decomposition Temperature:** N/A

**Flash Point:** N/A

**Explosion Limits:** N/A

**Flammability:** N/A

**Autoignition Temperature:** N/A

<b>Refractive Index:</b>	N/A
<b>Optical Rotation:</b>	N/A
<b>Miscellaneous Data:</b>	N/A
<b>Solubility:</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Materials to Avoid:</b>	Avoid contact with Dimethyl sulfate, lead, copper, and acid.
<b>Hazardous Decomposition Products:</b>	Nature of decomposition products is not known.

## 11. TOXICOLOGICAL INFORMATION

### Route of Exposure:

<b>Skin Contact:</b>	May cause skin irritation.
<b>Eye Contact:</b>	May cause eye irritation.
<b>Inhalation:</b>	May cause irritation at mucous membranes and upper respiratory tract.
<b>Ingestion:</b>	May be harmful if swallowed.

### Signs and Symptoms of Exposure:

Many azides cause a fall in blood pressure and some enzyme inhibition. Laboratory experiments show that sodium azide produce a profound hypotensive Effect, demyelination of myelinated nerve fibers in the central nervous system, Testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects.

## 12. ECOLOGICAL INFORMATION

N/A

## 13. DISPOSAL INFORMATION

Contact a professional waste disposal service to dispose this material. Dissolve or mix The material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all environmental regulations.

## 14. TRANSPORT INFORMATION

This substance is considered to be Non-Hazardous for transport.  
This substance is considered to be Non-Hazardous for air transport.

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## 15. REGULATORY INFORMATION

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Follow all regulations in your country.

### **United States Classification and Label Text:**

Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.

### **United States Regulatory Information:**

SARA Listed:      No.

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## 16. OTHER INFORMATION

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The above information is believed to be correct but does not purport to be all inclusive and small only be a guide.

NOF Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.

License is granted to make unlimited paper copies for internal use only.

This substance is For Research Use Only.

Not for drug, diagnostic, or other uses.