



# Safety Data Sheet

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**ENEROX NICKEL ADDITIVE 55**

**Revised:** 2/11/16

## 1 IDENTIFICATION

**Product Name:** ENEROX NICKEL ADDITIVE 55  
**Product Code :**2850020  
**Recommended use of the chemical and restrictions on use:**Industrial applications

**Hubbard-Hall Inc.**  
563 South Leonard Street  
Waterbury, CT 06708  
**Telephone:** 203-756-5521  
**Fax number:** 203-756-9017

Emergency Phone Number  
**CHEMTREC:** 1 (800) 424-9300  
**International:** 1 (703) 527-3887

## 2 HAZARDS IDENTIFICATION



**Signal Word:** WARNING

**Hazard Category:** Skin Corrosion/Irritation Hazard Category 2  
Eye Damage/Irritation Hazard Category 2B

**Hazard Statements:** Causes skin irritation.  
Causes eye irritation.

**Prevention:** Wash skin thoroughly after handling.  
Wear rubber gloves, goggles and chemical protective clothing.

**Response:** If on skin: Wash with plenty of water.  
Specific treatment - refer to poison center or doctor for advice.  
If skin irritation occurs: Get Medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
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 .

**Components with Unknown Acute Toxicity** Oral = 95% Dermal = 95%

### 3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Diethoxylated 2-Butyne-1,4 Diol	1,4-di-(2-hydroxyethoxy)-butyne-2	1606-85-5	<5%

### 4 FIRST AID

**After Skin Contact:**

If on skin(on hair): Take off immediately all contaminated clothing. Rinse with water/safety shower. Call doctor if irritation persists.

**After Eye Contact:**

If in eyes: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritated, call doctor.

**After Ingestion:**

If swallowed: Rinse mouth. Do NOT induce vomiting.

#### Most Important Symptoms/Effects

**Eye:**

Irritation of eyes and skin.

**Skin:**

This product can cause mild, transient skin irritation. The severity of irritation will depend on the amount of material that is applied to the skin and the speed and thoroughness that it is removed. Symptoms include redness, itching, and burning of the skin. Repeated or prolonged skin contact can produce moderate irritation(dermatitis).

**Indication of immediate medical attention:**

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation.

### 5 FIRE FIGHTING MEASURES

**Suitable and Unsuitable extinguishing media:** Will not burn or support combustion. Use extinguishing media appropriate for surrounding fire, such as water spray, dry chemical, foam or carbon dioxide.

**Specific hazards arising from the chemical:** Carbon oxides may be produced.

**Special protective equipment and precautions for firefighter** Wear chemical resistant protective equipment and self contained breathing apparatus (SCBA).

### 6 ACCIDENTAL RELEASE MEASURES

**Methods and Materials for containment & cleaning up:** Stop spill at source.

Caution: Spilled material may be slippery.

If trained in accordance 29 CFR 1910.120, leaks should be stopped. Spills should be contained and cleaned immediately. Persons performing clean up work should wear adequate personal protective equipment and clothing. Spills and releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

Absorb the chemical onto sand, vermiculite, or any other non-combustible absorbent, and collect into containers for later disposal.

### 7 HANDLING AND STORAGE

**Precautions for safe handling:** Wash hands thoroughly after handling.

Wear rubber gloves, goggles and chemical protective clothing.

Eating, drinking and smoking in the work area is prohibited.

**Conditions for safe storage,  
inc any incompatibilities:**

Do not allow material to freeze.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
Diethoxylated 2-Butyne-1,4 Diol	Not established		

ACGIH - American Control of Governmental Hygenists  
OSHA - Occupational Safety and Health Administration

**Protective Gloves:** Rubber gloves

**Eye Protection:** Wear chemical safety goggles.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Yellow Liquid  
**Odor:** Mild alcohol odor  
**Odor Threshold:** N/A  
**PH:** 2.0-3.5 (1% solution)  
**Melting Point/Freezing Point:** similar to water  
**Initial Boiling Point and Boiling Range:** N/A  
**Flash Point:** None  
**Evaporation Rate:** N/A  
**Flammability (solid, gas):** Non flammable  
**Upper/Lower flammability or explosive limits:** N/A  
**Vapor Pressure:** N/A  
**Vapor Density:** N/A  
**Relative Density:** 1.05-1.07  
**Solubility (ies):** Complete in water  
**Partition Coefficient; n-octanol/water:** N/A  
**Auto-ignition Temperature:** N/A  
**Decomposition Temperature:** N/A  
**Viscosity:** N/A

## 10 STABILITY AND REACTIVITY

**Reactivity:** Hazardous Polymerization will not occur.  
**Chemical Stability:** Stable under normal conditions  
**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur.  
**Incompatible Materials:** Avoid contact with strong oxidizers and strong acids.

## 11 TOXICOLOGICAL INFORMATION

**Oral Administration:** Diethoxylated 2-Butyne-1,4 Diol LD50(Rat)-1600 mg/kg  
**Dermal administration:** Diethoxylated 2-Butyne-1,4 Diol LD50(Rabbit)->2000 mg/kg

**Immediate effects:** Irritation/ burns of skin and eyes.  
**Cancer Hazard:** Not listed by IARC, NTP, OSHA, ACGIH  
**Routes of Exposure:** Eyes, Skin, Inhalation, Ingestion

## 12 ECOLOGICAL INFORMATION

**Daphnia Magna,** Diethoxylated 2-Butyne-1,4 Diol EC50 - > 100 mg/L 48 h  
**Persistence and Degradability:** Will biodegrade readily  
**Biotic degradability:** No data available  
**Bioaccumulation potential:** Unlikely  
**Water result:** Disperses in water.  
**Soil/Sediment Result:** No data available

## 13 DISPOSAL CONSIDERATION

*Dispose of in accordance with local, state and federal regulations.*

## 14 TRANSPORT INFORMATION

UN Proper Shipping Name: NOT D.O.T. REGULATED

## 15 REGULATORY INFORMATION

HMIS: Health: 1 Flammability: 0 Reactivity: 0

## 16 OTHER INFORMATION

**Disclaimer:** The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.