

# MATERIAL SAFETY DATA SHEET

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**24 Hour Emergency Assistance CHEMTREC 1-800-424-9300**

**PRODUCT NAME:** Entro

**PRODUCT CODE:** ENT00,02

## I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Entro  
**PRODUCT CODE:** ENT00,02  
**PRODUCT CLASS:** Mixture of surfactants, modified seed oil and 28% nitrogen fertilizer  
**Date Prepared:** 4/25/05  
**Prepared by:** Safety Department

HMIS Codes	
Fire	2
Health	2
Reactivity	0
Protection	D

## II - COMPOSITION/HAZARDOUS INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200)

OCCUPATIONAL EXPOSURE LIMIT

**INGREDIENT -** Butonal  
**PERCENT % -** 5%

**OSHA PEL** ND  
**ACGIH TLV** ND

## III - HEALTH HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

**Eyes:** Mild irritation.

**Ingestion:** Slight throat irritation and respiratory discomfort.

**Skin:** Moderate irritation.

**Chronic Effects of Overexposure:** N/D

**Acute Toxicological Properties:** Moderate irritation.

## IV - FIRST AID

### Eyes:

Immediately flush with large quantities of water for at least 15 minutes.

### Ingestion:

If swallowed, call a physician.

### Skin:

Immediately flush with large quantities of water for at least 15 minutes.

### Antidotes:

Treat symptomatically. No specific antidote available.

### Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen and call a physician.

### Note to Physician:

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## V - FIRE-FIGHTING MEASURES

**Flashpoint:** >110°F

**Method:** PMCC

**Flammable Limits:** ND

**Autoignition Temperature:** ND

**OSHA Flammability Class:** IIIB

**Extinguishing Media:** Dry chemical, waterspray, waterfog, CO2, foam or sand/earth.

**Explosion Hazards:** ND

**Fire Fighting Equipment:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

**Fire Fighting Procedures:** ND

## VI - ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

**Spill:** Absorb with an inert material such as sand, soil or vermiculite; and sweep up and dispose in accordance with federal, state and local regulations.

## VII - HANDLING AND STORAGE

**MINIMUM STORAGE TEMPERATURES:** 40°F

**MAXIMUM STORAGE TEMPERATURES:** 120°F

**Handling:** Avoid breathing vapors and mists. Avoid prolonged contact with skin and eyes.

**Storage:** Store in tightly closed original labeled containers. Store in a dry, well ventilated area away from ignition sources and incompatible materials.

## VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL HYGIENE IS AN IMPORTANT EXPOSURE CONTROL MEASURE.

THE FOLLOWING GENERAL MEASURES SHOULD BE TAKEN WHEN WORKING OR HANDLING THIS MATERIAL.

### Personal Protection

These recommendations provide general guidelines for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

### Skin

Skin contact should be minimized through the use of rubber or plastic, solvent resistant gloves.

### Respiratory

Use NIOSH/MSHA approved respirator when exposure limits have been exceeded or are expected.

### Eyes and Face

The use of chemical safety glasses with side shields or splash proof goggles when using this product is recommended. An emergency eye wash and safety shower should be accessible to the work area.

### Work Hygienic Practices

1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

## IX - PHYSICAL AND CHEMICAL PROPERTIES

Odor: fatty/ammonia

Appearance: clear liquid

Color: amber

pH: 8.5

Solubility in Water: dispersible

Density: NA

Particle Size: NA

Specific Gravity: 1.09 @ 20° C

Viscosity: ND

Percent Volatile: 20

## X - STABILITY AND REACTIVITY

Stable: product is stable under normal conditions

Conditions to Avoid: heat, open flame, spark

Hazardous Polymerization: N/A

Thermal Decomposition: carbon monoxide, carbon dioxide, and ammonia from burning

Incompatible Materials: Keep away from strong oxidizers such as hydrogen peroxide, bromine and chromic acid.

## XI - TOXICOLOGICAL INFORMATION

Acute Oral: ND

Acute Dermal: ND

Eye Irritation: ND

Skin Irritation: ND

## XII - DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with all applicable federal, state and local regulations.

## XIII - TRANSPORTATION INFORMATION

DOT Proper Shipping Name: Adjuvant spreader, sticker

DOT Hazard Class: Flammable liquid for bulk and containers greater than 110 gallons. Not regulated in containers less than 110 gallon

REFER TO BILL OF LADING FOR CURRENT SHIPPING INFORMATION.

## XIV - REGULATORY INFORMATION

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: None

304 CERCLA/313 Reportable Ingredients: None

TSCA Status: All chemical substances in this product are listed in the TSCA inventory.

## XV - OTHER INFORMATION

THE INFORMATION IN THIS MSDS IS GIVEN IN GOOD FAITH BASED ON OUR EXPERIENCE AND DATA PRESENTED IN VARIOUS TECHNICAL PUBLICATIONS. IT IS THE USERS RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF SAFETY PRECAUTIONS AS MAY BE NECESSARY. THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND.