

# MATERIAL SAFETY DATA SHEET

**MANUFACTURED BY:**

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## 1. PRODUCT IDENTIFICATION

**PRODUCT TRADE NAME:** Energy

**DATE PREPARED:** January 12, 2007

**CHEMICAL FAMILY:** Polysaccharide based micronutrient

**FORMULA:** NA, Formulated Mixture.

**National Fire Protection Association Rating**

Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum

**SYNONYMS:** Liquid trace package

**CAS NUMBER:** NA, Formulated Mixture.

Health 0

**EPA NUMBER:** None required.

Flammability 0

Reactivity 0

## 2. INGREDIENTS AND HAZARDS

INGREDIENTS	CAS#	LIMITS
Water soluble nitrogen	57-13-6	Propriety formula
Iron Sulfate	10038-22-5	Propriety formula
Manganese sulfate	10034-96-5	Propriety formula
Zinc sulfate	7733-02-0	Propriety formula
Gluconic acid	527-07-1	Propriety formula

**HAZARD CLASSIFICATION:** Irritant

## 3. PHYSICAL DATA

**APPEARANCE:** Tan to light brown solution

**VAPOR PRESSURE:** N/A

**ODOR:** Bland

**SOLUBILITY IN WATER:** 100%

**SPECIFIC GRAVITY:** 1.04

**pH:** 2.5-2.8

**BOILING POINT:** N/A

**VOLATILES:** Nonex

**FREEZING POINT:** N/A

NA = NOT APPLICABLE

## 4. FIRE AND EXPLOSION DATA

**FLASH POINT, F, COC:** > 200

**FLAMMABLE LIMITS:** Not established

**AUTO IGNITION TEMPERATURE:** Not established

**EXTINGUISHING MEDIA:** Dry chemical, foam or carbon dioxide. Water spray acceptable.

**FIRE & EXPLOSION HAZARD:** Firefighters should use self-container breathing apparatus to avoid exposure to smoke and vapor..

**FIRE & EXPLOSION HAZARD:** None known.

**SPECIAL PROCEDURES:** Use water spray to cool drums exposed to fire.

## 5. REACTIVITY DATA

**STABILITY:**

Product is stable.

**INCOMPATIBILITY:**

Avoid contact with strong oxidizing agents.

**DECOMPOSITION PRODUCTS:**

Carbon oxides

**HAZARDOUS POLYMERIZATION:**

Will not occur.

## **6. HEALTH HAZARD DATA**

**ROUTES OF EXPOSURE:** Ingestion, eyes, and skin.

### **SYMPTOMS**

**INGESTION:** May cause gastric distress as evidences by nausea and diarrhea.

**EYES:** May cause pain, excessive watering, redness and stinging.

**SKIN :** Overexposure may cause itching, drying, and redness similar to rash.

### **FIRST AID**

**EYES:** Irrigate immediately with water for at least 5 minutes. Consult physician if irritation persists.

**SKIN:** Wash off in flowing water or shower.

**INGESTION:** No adverse effect anticipated by this route of exposure incidental to proper industrial handling. For accidental ingestion of copious quantities by children, or appearance of symptoms noted in Section VI, contact a physician prior to taking any medical action.

**NOTE TO CARE AID ATTENDANTS:** Provide supportive care, consult and have available MSDS sheet and make said information known and available to attending medical support personnel.

PRODUCT IS NOT LISTED IN NTP, IARC, OR BY OSHA AS A CARCINOGEN.

## **7. PRECAUTIONS FOR SAFE HANDLING AND USE**

**ACTION TO TAKE FOR SPILLS/LEAKS:** Contain spills by diking with dirt, sand or other absorbent material. Rope off area to prevent inadvertent spread of spill. Place leaking containers in overpak containers or transfer material to clearly marked new containers. Upon discovery of leak or spillage, notify proper supervisory personnel and if situation warrants, notify the proper Local or State hazardous waste response units prior to taking any action other than initial emergency response. All materials used to absorb leak or spill should be handled and disposed of in accordance to Local, State and Federal environment laws. Workers performing clean-up duties should be made aware of any potential health hazards and must wear the correct protective clothing and devices needed to perform the duties in a safe proper manner.

**PRODUCT DISPOSAL:** Excess product that cannot be used without violating label instructions must be disposed of in a manner that is in full compliance of Local, State and Federal laws.

**CONTAINER DISPOSAL:** Check with Local and State authorities for proper disposal prior to offering for recycling, incineration or sanitary land fill. Containers sent to local land fills should be triple rinsed, punctured and crushed prior to disposal.

**HANDLING & STORAGE:** No special requirements.

## **8. CONTROL MEASURES**

**RESPIRATORY PROTECTION:**

Not required

**VENTILATION:**

No special requirements

**PROTECTIVE GLOVES:**

Chemical resistant rubber gloves

**EYE PROTECTION:**

Chemical protective eye wear.

**WORK/HYGIENIC PRACTICES:**

Avoid contact with eyes, skin, clothing. Wash thoroughly after handling.

## **9. REGULATORY STATUS**

This product does not contain material regulated under SARA Title 3 Section 313