

# MATERIAL SAFETY DATA SHEET

MANUFACTURED BY:  
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## 1. PRODUCT IDENTIFICATION

**PRODUCT TRADE NAME:** Calmag 850  
**CHEMICAL FAMILY:** 2-3-4-5-6 Penta hydroxy  
hexanoic acid  
**FORMULA:** N/A  
**SYNONYMS:** trace element mixture  
**NUMBER:** Formulated mixture

**DATE PREPARED:** Jan 29,2007

### National Fire Protection Association Rating

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

Health	1
Flammability	0
Reactivity	1

## 2. INGREDIENTS AND HAZARDS

**HAZARD CLASSIFICATION:** IRRITANT

<u>COMPOSITION</u>	<u>CAS REGISTRY NO</u>	<u>LIMITS</u>
gluconic acid	526-95-4	Propriety formula
Magnesium sulfate	10034-99-8	Propriety formula

## 3. PHYSICAL DATA

**APPEARANCE:** reddish-light brown solution  
**ODOR:** Bland  
**SPECIFIC GRAVITY:** 1.38  
**BOILING POINT:** N/A  
**FREEZING POINT:** N/A

**VAPOR PRESSURE:** N/A  
**SOLUBILITY IN WATER:** 100%  
**pH:** 4.9  
**VOLATILES:** None

NA = NOT APPLICABLE

## 4. FIRE AND EXPLOSION DATA

**FLASH POINT, F, COC:** None  
**FLAMMABLE LIMITS:** Not established  
**AUTO IGNITION TEMPERATURE:** Not established  
**EXTINGUISHING MEDIA:** Dry chemical, foam or carbon dioxide.  
**FIRE & EXPLOSION HAZARD:** Firefighters should use self-container breathing apparatus to avoid exposure to smoke and vapor.  
**FIRE & EXPLOSION HAZARD:** None known.  
**SPECIAL PROCEDURES:** None known.

## 5. REACTIVITY DATA

**STABILITY:** Product is stable.  
**INCOMPATIBILITY:** none known.  
**DECOMPOSITION PRODUCTS:** Product would not be expected to burn.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

## 6. HEALTH HAZARD DATA

**ROUTES OF EXPOSURE:** Inhalation, ingestion, eyes, and skin.

### **SYMPTOMS**

**Refer to Section 2**

### **FIRST AID**

**INHALATION:** Remove to fresh air.

**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. Accidental ingestion of copious quantities or appearance of symptoms noted in Section 2, 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.

## 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:** Keep away from water. Material will dissolve in the presence of moisture. High humidity will cause product to cake.

## 8. CONTROL MEASURES

**RESPIRATORY PROTECTION:**

dust mask recommended.

**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

**TRANSPORTATION INFORMATION:** This material is classified as non-hazardous under Department of Transportation regulations.

SARA Title III:

311/312 Hazard Categories: Non-Hazardous

313 Reportable ingredients: None