

635 SOUTH ELMWOOD AVENUE  
P.O. BOX 4076  
DAVENPORT, IOWA 52808  
EMERGENCY PHONE 563-324-3381

## Material Safety Data Sheet

Effective date: 8/27/2007  
Revision: 1

Print date: 5/18/2009

**NFPA: Health 1, Fire 0, Reactivity 0**

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### 1. INGREDIENTS:

**CHEMICAL NAME:**

Sodium Chloride  
Calcium Magnesium Acetate  
Accelerating Agents  
MAC® contains two accelerating agents:

**CAS#:**

07647-14-5  
Not Available  
N/A  
Activar® covered under U.S. Patent# 6,036,890  
and Propel® U.S. Patent pending

### 2. HEALTH HAZARD DATA:

**EYES:** Dust may cause irritation.  
**SKIN CONTACT:** Not expected to be a health hazard.  
**SKIN ABSORPTION:** Short single exposures are not likely to cause significant skin irritation or result in the material being absorbed through the skin in harmful amounts. The LD50 for skin absorption in rabbits is >500 mg/24hr. Mild (RTECS, 1986) **EYE**  
**INGESTION:** Dehydration and congestion may occur in internal organs. Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract.  
**INHALATION:** Dust may cause mild irritation to mucous membranes, nose and throat. Symptoms may include coughing, dryness and sore throat.

### 3. FIRST AID:

**EYES:** Flush with flowing water immediately and continuously for 15 minutes. Consult medical personnel.  
**SKIN:** Wash exposed area with soap and water. Get medical advice if irritation develops.  
**INGESTION:** If large amounts are ingested, get medical attention.  
**INHALATION:** Remove to fresh air if effects occur. Consult medical personnel for any breathing difficulties.

### 4. FIRE AND EXPLOSION HAZARD DATA:

**FLASH POINT:** N/A  
**FLAMMABLE LIMITS:** N/A  
**EXTINGUISHING MEDIA:** N/A  
**FIRE & EXPLOSION HAZARDS:** None  
**FIRE-FIGHTING EQUIPMENT:** Wear positive pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing.

### 5. ACCIDENTAL RELEASE MEASURES:

See section 11 for Regulatory & Shipping Information.

**PROTECTING THE ENVIRONMENT:**

**SMALL SPILLS:** Sweep up product and place in properly labeled containers for reclaim or disposal. Vacuuming or wet sweeping may be used to avoid excessive dust.

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LARGE SPILLS:

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Sweep up product and place in properly labeled containers for reclaim or disposal. Vacuuming or wet sweeping may be used to avoid excessive dust.

DISPOSAL:

Whatever cannot be saved for reclaim may be delivered to an approved waste disposal facility, or if local ordinances allow, can be dissolved in sufficient amounts of water to meet water quality standards, and flushed down a sewer drain. Ensure compliance with local, state and federal regulations.

REPORTABLE QUANTITY: Check your state for requirements.

WASTE CLASSIFICATION: Some state have set maximum limits on Chlorides in waste effluent.

### 6. SAFE HANDLING AND STORAGE PRECAUTIONS:

HANDLING:

Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving. (temperature less than 80°F, 27°C)

Refer to Exposure Controls/Personal Protection, Section 7 of this MSDS.

STORAGE:

Keep containers tightly closed when not in use. Store in a dry place. Protect from atmospheric moisture.

### 7. EXPOSURE CONTROLS/PERSONAL PROTECTION:

VENTILATION:

Provide general and/or local exhaust ventilation to control dust levels below the exposure guidelines.

RESPIRATORY PROTECTION:

For conditions where exposure to dust is apparent, a NIOSH approved dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

PROTECTIVE CLOTHING:

If deemed necessary, wear protective gloves and clean clothing.

EYE PROTECTION:

Wear a face shield, safety glasses or chemical goggles. Contacts should not be worn while working with product.

### 8. PHYSICAL DATA:

MELTING POINT:

N/A

BOILING POINT:

N/A

VAPOR PRESSURE

N/A

VAPOR DENSITY

N/A

SPECIFIC GRAVITY

2.165

SOLUBILITY IN WATER

Complete

EVAPORATION RATE

N/A

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APPEARANCE  
ODOR

Blue crystalline material  
None

### 9. STABILITY & REACTIVITY DATA:

PRODUCT STABILITY:	Stable
CHEMICAL INCOMPATIBILITY:	Stable and inert under normal conditions. Will react with strong acids (to generate HCl) and strong oxidizing agents (to generate Cl <sub>2</sub> )
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	Will not occur.
CONDITIONS TO AVOID:	Avoid contact with strong acids.
CORROSIVE TO METAL:	Mildly corrosive to metals in the presence of moisture.
OXIDIZER:	N/A

### 10. TRANSPORT INFORMATION:

#### UNITED STATES DOT INFORMATION:

This product is not regulated by D.O.T. when shipped domestically by land.

#### CANADIAN TDG INFORMATION:

This product is not regulated by T.D.G. when shipped domestically by land.

### 11. REGULATORY & SHIPPING DATA: (Not meant to be all-inclusive- selected regulations represented)

D.O.T. PROPER SHIPPING NAME:	N/A
HAZARDOUS SUBSTANCE 49CFR CERCLA:	N/A
D.O.T. HAZARD CLASS	N/A
D.O.T. LABELS REQUIRED	N/A
D.O.T. PLACARDS REQUIRED	N/A

### 12. SUPPLIER INFORMATION:

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