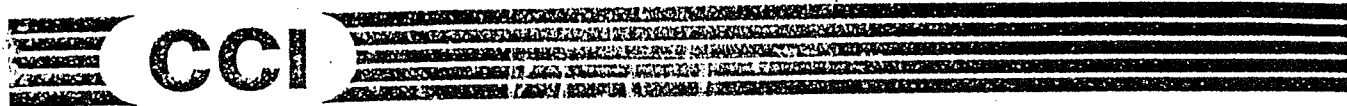


8-31-05

APR 20 1995



SA 09598  
A 09600

SA 09601  
SA 07732  
MAGNESIUM SULFATE

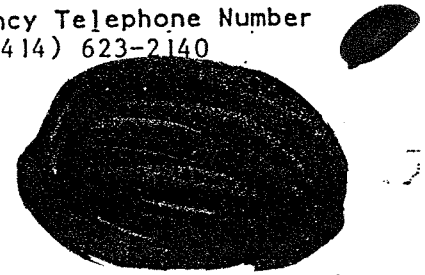
# 9266

Entered File: 12/18/86

Material Safety Data Sheet

Emergency Telephone Number  
(414) 623-2140

Columbus Chemical Industries, Inc.  
N4335 Temkin Road  
Columbus, WI 53925



Effective Date: 11-07-85

PRODUCT IDENTIFICATION: # 9266

Synonyms: Magnesium sulfate (1:1) heptahydrate; Epsom salts; sulfuric acid, magnesium salt (1:1), heptahydrate

Formula CAS No.: 10034-99-8 (Hydrated)  
TSCA CAS No.: 7487-88-9 (Anhydrous)

Molecular Weight: 246.47

Hazardous Ingredients:  
Not applicable.

Chemical Formula: MgSO<sub>4</sub> 7H<sub>2</sub>O

PRECAUTIONARY MEASURES

WARNING! MAY BE HARMFUL IF SWALLOWED.

Wash thoroughly after handling.

EMERGENCY/FIRST AID

If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

SEE SECTION 5.

DOT Hazard Class: Not Regulated

Physical Data

SECTION 1

Appearance: Transparent crystals, or white powder.

Odor: Odorless.

Solubility: Very soluble in water.

Boiling Point: Not applicable.

Vapor Density (Air=1): No information found.

Melting Point: Loses water @ 250°C (482°F)  
Decomposes @ 1124°C (2055°F)

Vapor Pressure (mm Hg): No information found.

Specific Gravity: 1.67

Evaporation Rate: No information found.

Fire and Explosion Information

SECTION 2

Fire:

Not considered to be a fire hazard. *ADL*

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

Use protective clothing and breathing equipment appropriate for the surrounding fire.

Reactivity Data

SECTION 3

Stability:

Stable under ordinary conditions of use and storage. Loses some moisture on exposure to dry air at room temperatures.

Hazardous Decomposition Products:

Oxides of sulfur and the contained metal.

Hazardous Polymerization:

This substance does not polymerize.

Incompatibilities:

No incompatibility data found.

Leak/Spill Disposal Information

SECTION 4

Clean-up personnel may require respiratory protection from dust. Spills: Sweep up and containerize for reclamation or disposal. Avoid dust dispersal. Trace residue may be flushed to sewer with large amounts of water. Disposal: Whatever cannot be saved for reclamation may be disposed in an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

Health Hazard Information

SECTION 5

#9266

A. Exposure/Health Effects

Inhalation: Dust may be slightly irritating. Sore throat or coughing may occur.

Ingestion: Abdominal pain, vomiting and diarrhea may occur.

Skin Contact: May cause minor irritation.

Eye Contact: May cause redness and pain.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

B. FIRST AID

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Exposure: Remove any contaminated clothing. Wash skin with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

Eye Exposure: Wash eyes with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

C. TOXICITY DATA (RTECS, 1982)

No LD50/LC50 information found relating to normal routes of occupational exposure.  
 Mutation references cited for anhydrous salt.  
 Animal reproductive effects cited for anhydrous salt.

Occupational Control Measures

SECTION 6

Airborne Exposure Limits:

None established.

#9266

Ventilation System:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators  
(NIOSH Approved)

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

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Contact lenses should not be worn when working with this material.

Maintain eye wash fountain and quick-drench facilities in work area.

Storage and Special Information

SECTION 7

Keep in a tightly closed container, stored in a cool, dry, ventilated area.  
Protect against physical damage.

While Columbus Chemical Industries, Inc. believes that the data contained herein are factual, they are not to be taken as a warranty or representation for which Columbus Chemical Industries, Inc. assumes legal responsibility. They are offered solely for your consideration, investigation. Any use of these data and information must be determined by the user to be in accordance with the applicable Federal, State, and Local laws and regulations.