

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Manufacturer Calcium Chloride, Dihydrate

EMD Chemicals Inc. P.O. Box 70

480 Democrat Road Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries,

For More Information Call 856-423-6300 Technical Service

Monday-Friday: 8:00 AM - 5:00 PM

Synonym Material Uses Chemical Family

CALCIUM CHLORIDE Analytical reagent. Inorganic salt.

Product Code

CX0134

Effective Date

8/20/2004

In Case of Emergency Call 800-424-9300 CHEMTREC (USA) 613-996-6666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week

Section 2. Composition and Information on Ingredients

Component

CAS#

% by

CALCIUM CHLORIDE, DIHYDRATE

10035-04-8

Weight

Section 3. Hazards Identification

Physical State and

Solid. (Powder or flakes solid. Granular solid.)

Appearance

Emergency Overview

CAUTION!

CAUSES EYE IRRITATION.

MAY CAUSE SKIN IRRITATION.

Routes of Entry

Absorbed through skin. Dermal contact. Eye contact. Inhalation, Ingestion.

Potential Acute Health Effects

Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering,

and itching.

Skin May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling,

reddening, or, occasionally, blistering.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion Irritating to mouth, throat and stomach. Ingestion can cause nausea and vomiting.

Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

Medical Conditions Aggravated by

Overexposure:

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient.

Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse.

Thoroughly clean shoes before reuse. Get medical attention.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to

an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Product May be combustible at high temperature.

Auto-ignition Temperature Not available.

Fire Hazards in Presence of Not available.

Protective Clothing (Pictograms)

Substances Fire Fighting Media Risks of explosion of the product in presence of static discharge: No.

Risks of explosion of the product in presence of mechanical impact: No. SMALL FIRE: Use DRY chemical powder.

and Instructions LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Be sure to use an approved/certified respirator or equivalent. Protective Clothing (Fire)

Special Remarks on Fire Not available.

Hazards Special Remarks on **Explosion Hazards**

Flash Points

Flammable Limits

Various Substances Explosion Hazards in

Presence of Various

Products of Combustion

Not available.

Not available,

Not available.

Section 6. Accidental Release Measures

Small Spill and Leak

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill and Leak Spill Kit Information Use a shovel to put the material into a convenient waste disposal container.

No specific spill kit required for this product.

Section 7. Handling and Storage

Handling

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not ingest. Do not

These products are carbon oxides (CO, CO2), halogenated compounds. Some metallic oxides.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes Splash goggles. Body Lab coat.

Respiratory Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable



of a Large Spill

Personal Protection in Case Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name CALCIUM CHLORIDE, DIHYDRATE

Exposure Limits Not available.

Section 9. Physical and Chemical Properties

Color

Odor

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Not available. White.

Physical State and

Solid. (Powder or flakes solid. Granular solid.)

Appearance Molecular Weight Molecular Formula

147.02 g/mole CaCl2 . 2H2O Not available.

Boiling/Condensation Point Not available. Melting/Freezing Point Specific Gravity Vapor Pressure Vapor Density Odor Threshold

Not available. Not available. Not available. Not available. Not available. Not available.

Evaporation Rate LogKow Solubility

Not available Soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity

The product is stable.

Conditions of Instability Incompatibility with

Not available. Reactive with metals, moisture.

Various Substances Rem/Incompatibility

Not available.

Hazardous Decomposition

These products are halogenated compounds.

Products

Hazardous Polymerization Will not occur.

Section 11. Toxicological Information

RTECS Number:

Calcium Chloride, Dihydrate

EV9810000

Toxicity

LD50: Not available. LC50: Not available.

Chronic Effects on Humans Not available.

Acute Effects on Humans Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering,

and itching. May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by

itching, scaling, reddening, or, occasionally, blistering.

Synergetic Products

Not available.

(Toxicologically) Irritancy

Draize Test: Not available.

Sensitization

Not available.

Carcinogenic Effects

Toxicity to Reproductive

This material is not known to cause cancer in animals or humans.

System

Not available.

Teratogenic Effects

Not available

Mutagenic Effects

Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical

Substances (RTECS).

Section 12. Ecological Information

Ecotoxicity

Not available.

BOD5 and COD

Not available.

Biodegradation

Toxicity of the Products of The products of degradation are more toxic than the product itself.

Section 13. Disposal Considerations

EPA Waste Number

Not available.

Treatment

Material does not have an EPA Waste Number and is not a listed waste, however consultation with a

permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal

(TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification

Proper Shipping Name: CHEMICALS, N.O.S.

TDG Classification

RQ: Not applicable. Not available.

IMO/IMDG

Proper Shipping Name: CHEMICALS, N.O.S.

Classification TCAO/IATA

RQ: Not applicable. Not available.

Classification

+Section 15. Regulatory Information

U.S. Federal Regulations

TSCA 8(b) inventory: Calcium Chloride, Dihydrate

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: Calcium Chloride, Dihydrate

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Calcium Chloride,

Dihydrate: Immediate (Acute) Health Hazard

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. WHMIS (Canada)

Clean air act (CAA) 112 regulated toxic substances: No products were found.

Class D-2B: Material causing other toxic effects (TOXIC).

CEPA DSL: CALCIUM CHLORIDE

This product has been classifed in accordance with the hazard criteria of the Controlled Product

Regulations and the MSDS contains all required information.

International Regulations

EINECS DSCL (EEC) Not available.

R38- Irritating to skin. R41- Risk of serious damage to eyes.

International Lists

Australia (NICNAS): Calcium Chloride, Dihydrate

Japan (MITI): Calcium Chloride, Dihydrate

Philippines (RA6969): Calcium Chloride, Dihydrate

China: No products were found.

State Regulations

No products were found. California prop. 65: No products were found.

Section 16. Other Information

National Fire Protection Association

(U.S.A.)

Health 0 0

Fire Hazard

Reactivity

Specific Hazard

0

Changed Since Last

Revision

Notice to Reader

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