

EMS CATALOG NO: 12340
EMS PRODUCT: Calcium Chloride
DATE: 06/15/2006
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MATERIAL SAFETY DATA SHEET

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

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FOR PRODUCT AND SALES INFORMATION

CONTACT ELECTRON MICROSCOPY SCIENCES OFFICE ABOVE.

PRODUCT IDENTIFICATION

PRODUCT NAME: Calcium Chloride Hexahydrate, Crystallized
CAS NUMBER: 10035-04-8
FORMULA: $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
EC NO: 233-140-8
SYNONYMS: Calcium Dichloride Dihydrate * Cal Plus *
Replenisher (Calcium) *

HAZARDS IDENTIFICATION

LABEL PRECAUTIONARY STATEMENTS:

Harmful. Harmful if swallowed. Irritating to eyes, respiratory system and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

FIRST-AID MEASURES

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. In case of contact, immediately wash skin with soap and copious amounts of water. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. If swallowed, wash out mouth with water provided person is conscious. Call a physician. Wash contaminated clothing before reuse.

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Non-combustible. Use extinguishing media appropriate to surrounding fire conditions.

SPECIAL FIREFIGHTING PROCEDURES:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS:

Emits toxic fumes under fire conditions.

ACCIDENTAL RELEASE MEASURES

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

HANDLING AND STORAGE

ADDITIONAL INFORMATION:

Calcium chloride is attacked by Bromine Trifluoride.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear appropriate niosh/msha-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Safety shower and eye bath. Mechanical exhaust required. Do not breathe dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Keep tightly closed. Store in a cool dry place.

STABILITY AND REACTIVITY

INCOMPATIBILITIES:

Strong acids.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

Hydrogen chloride gas.

TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Harmful if swallowed. May be harmful if inhaled. May be harmful if absorbed through the skin. Causes eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS #: EV9810000

Calcium chloride, dihydrate.

TOXICITY DATA:

IPR-MUS LD50: 20500 mg/kg

CYLPDN 4,110,83

Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in rtecs for complete information.

ECOLOGICAL INFORMATION

DATA YET NOT AVAILABLE.

DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

REGULATORY INFORMATION

EUROPEAN INFORMATION:

Harmful (R22). Harmful if swallowed. (R 36/37/38) Irritating to eyes, respiratory system and skin. (S 26) In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (S 36) Wear suitable protective clothing.

REVIEWS, STANDARDS, AND REGULATIONS:

OEL=MAK

NOES 1983: HZD X3586; NIS 12; TNF 1290; NOS 23; TNE 19024; TFE 10290