

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Calcium Chloride, Anhydrous

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries, Inc.

N4335 Temkin Rd

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

10-06-2004

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

| Hazardous Components (Specific Chemical Identity, Common Name(s)) | CAS # | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (optional) |
|--|------------|---------------|---------------|-----------------------------|--------------|
| Calcium Chloride, anhydrous | 10043-52-4 | Not available | Not available | Not available | 100% |
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Section III - Physical/Chemical Characteristics

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|----------------------------------|----------------|---|------------------|
| Boiling Point | 1670°C(3038°F) | Specific Gravity (H ₂ O = 1) | Not applicable |
| Vapor Pressure (mm Hg) @ 18°C | 3040 mmHg | Melting Point | 772 °C (1422 °F) |
| Vapor Density (AIR = 1) | Not available | Evaporation Rate (Butyl Acetate = 1) | Not available |

Solubility in Water
 74.5g in 100mL water @ 20°C

Appearance and Odor
 White solid.

Section IV Fire and Explosion Hazard Data

| | | | |
|--|------------------|-----------------------|-----------------------|
| Flash Point (Method Used) Noncombustible. | Flammable Limits | LEL Not applicable | UEL Not applicable |
|--|------------------|-----------------------|-----------------------|

Extinguishing Media

Suitable to extinguish the supporting flame. Water spray, dry chemical, carbon dioxide, alcohol foam.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

Section V Reactivity Data

| | | | | |
|-----------|----------|---|---------------------|----------------|
| Stability | Unstable | | Conditions to Avoid | Incompatibles. |
| | Stable | X | | |

Incompatibility Materials to Avoid

Alkali and alkaline earth metals,metals, strong acids,strong reaction with water.

Hazardous Decomposition or Byproducts

Calcium oxides, chlorine, hydrogen chloride.

Hazardous Polymerization**Conditions to Avoid**

| | | | |
|--|----------------|---|----------------|
| | May Occur | | Not available. |
| | Will Not Occur | X | |

Section VI Health Hazard Data

| | | | |
|------------------------|---------------------|---------------|--------------------|
| Routes of Entry | Inhalation ? | Skin ? | Ingestion ? |
| Multiple | Yes | Yes | Yes |

Health Hazards (Acute and Chronic)

SKIN: May cause irritation. EYE: Causes severe eye irritation and possible corneal damage.

INHALATION: May be harmful if inhaled. Material may be irritating to the mucous membranes and upper respiratory tract. INGESTION: May be harmful if swallowed.

| | | | |
|------------------------|------------|------------------------|------------------------|
| Carcinogenicity | NTP | IARC Monographs | OSHA REGULATED? |
| | Not listed | Not listed | Not listed |

Signs and Symptoms of Exposure.

Irritation of eyes, skin and mucous membranes including redness, swelling and pain. Coughing, burning sensation, wheezing, laryngitis, shortness of breath, abdominal pain, diarrhea, convulsions, headache, nausea and vomiting.

Medical Conditions Generally Aggravated by Exposure

Expected to aggravate asthma, emphysema and other respiratory diseases upon inhalation.

Emergency and First Aid Procedures EYES /SKIN: Immediately flush with large amounts of water for at least 15 minutes.

Remove contaminated clothing. Assure adequate flushing of eyes by separating eyelids with fingers. INHALATION: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. INGESTION:

DO NOT induce vomiting. Give large amounts of water. GENERAL: Wash contaminated clothing.

Section VII Precautions for Safe Handling and Use**Steps to be Taken in Case Material is Released or Spilled**

Evacuate unprotected personnel from area. Ventilate area. Wear self-contained breathing apparatus, rubber boots, heavy protective gloves and chemical safety goggles. Sweep up spilled material and place in plastic container for disposal. Wash spill area with water after pickup is complete.

Waste Disposal Method Dispose of spillage in accordance with all Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing

Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a corrosion-resistant container. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Protect exposed tissues.

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Do not breathe dust.

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH / MSHA-approved respirator with dust/mist cartridge.

| | | | | |
|-------------|----------------------|------------|---------|--------------------------|
| Ventilation | Local Exhaust | Necessary. | Special | Safety shower nearby. |
| | Mechanical (General) | Preferred. | Other | Eye wash station nearby. |

Protective Gloves Chemical-resistant gloves. **Eye Protection** Chemical Safety Goggles

Other Protective Clothing or Equipment Rubber apron, boots. Eye wash station, Safety Shower.

Work /Hygienic Practices Do **NOT** wear contact lenses when handling material. Wear appropriate personal protective

Wash thoroughly after handling. Do not breath dust. Avoid contact with eyes, skin and clothing. Use only with effective ventilation. Avoid prolonged or repeated exposure. Wash contaminated clothing before reuse.

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