

**MSDS - Material Safety Data Sheet****Product Name: Calcium Chloride**

MSDS No.: 217CS

**I. Basic Information:****Manufacturer:** Sirchie Finger Print Laboratories**Address:** 100 Hunter Place**City, ST Zip:** Youngsville, NC 27596**Country:** USA**Contact:** Tech Support**Information Telephone Number:** 919-554-2244**Emergency Contact:** ChemTrec**Emergency Telephone Number:** 800-424-9300**Emergency Restrictions:****Product Name:** Calcium Chloride**MSDS No.:** 217CS**Issue Date:** 10/24/2011**Supersedes Date:** Not Available**II. Hazards Identification:****EMERGENCY OVERVIEW**

Hygroscopic. May be harmful if swallowed. May cause severe respiratory and digestive tract irritation with possible burns. May cause severe skin and eye irritation with possible burns. May cause cardiac disturbances.

**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Potential Health Effects****Route(s) of Entry:**

Inhalation, ingestion, skin, eyes

**Health Hazards (Acute and Chronic):**

Acute: Possible skin and eye burns

**Signs and Symptoms:**

Inhalation: Pain, burns, inflammation

Ingestion: Nausea, vomiting, possible burns, seizures, rapid respiration, slow heartbeat, death

**Medical Conditions Generally Aggravated by Exposure:**

Skin, eye, respiratory diseases

**Other Health Warnings:**

Not Available

**Potential Environmental Effects**

Prevent from entering sewers or waterways. May be harmful to some aquatic life.

**III. Composition/Information on Ingredients:**

Chemical Name	CAS No.	% Range	Trade Secret
Calcium chloride, anhydrous	10043524	100	

**IV. First Aid Measures:****Emergency and First Aid Procedures:**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen (To be administered by qualified medical personnel only!) Get medical attention.

**Ingestion:** DO NOT induce vomiting. If victim is conscious and alert, give 2-4 cups of milk or water. (Never give anything by mouth to an unconscious person!) Get medical attention immediately.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Seek medical attention.

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Do not allow victim to rub or keep eyes closed. Get medical aid immediately.

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**Note to Physicians:**

None specified

**V. Fire Fighting Measures:****Suitable Extinguishing Media:**

Dry chemical, carbon dioxide, alcohol-resistant foam--DO NOT use water!

**Unsuitable Extinguishing Media:**

Wear self-contained breathing apparatus and protective clothing.

**Products of Combustion:**

Not Available

**Protection of Firefighters:**

Wear normal turnout gear.

**VI. Accidental Release Measures:****Personal Precautions:**

Wear dust respirator, safety goggles, and rubber gloves.

**Environmental Precautions:**

Prevent from entering sewers or waterways. May be harmful to some aquatic life.

**Methods for Containment:**

Not Available

**Methods for Cleanup:**

Sweep up and place in bag or vacuum up with proper filter equipped instrument. Avoid creating dust.

**Other Information:**

Dispose according to local, state, and federal regulations.

**VII. Handling and Storage:****Handling Precautions:**

Keep in tightly closed container. Keep cool and dry. Avoid incompatible materials, especially water. Use only in well-ventilated areas. Avoid dust generation and accumulation. Avoid contact with skin, eyes, and clothing. Do not ingest or inhale. Wash thoroughly after handling.

**Storage Precautions:**

Store with similar solids in a cool, dry place.

**VIII. Exposure Controls/Personal Protection:**

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Calcium chloride, anhydrous	NE	NE	Not Available

**Engineering Controls:**

Use only in well-ventilated areas.

**Personal Protective Equipment:**

Safety goggles, gloves, dust respirator, protective clothing

# MSDS - Material Safety Data Sheet

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### IX. Physical and Chemical Properties:

**Boiling Point:** 1,600 C

**Boiling Range:** Not Available

**Solubility In Water:** Reacts with water

**Flash Point:** NE

**Odor Threshold:** Not Available

**Vapor Density (AIR = 1):** NE

**pH Range:** Not Available

**Decomposition Temp:** Not Available

**Lower Explosive Limit:** NE

**Specific Gravity (H2O = 1):** Not Available

**Other Information:** Not Available

**Melting Point:** 782 C

**Freezing Point:** Not Available

**Evaporation Rate (Butyl Acetate = 1):** NE

**Flash Point Method:** Not Available

**Appearance and Odor:** White granules; no odor

**Vapor Pressure (mm Hg.):** NE

**Partition Coefficient:** Not Available

**Auto-Ignition Temp:** Not Available

**Upper Explosive Limit:** NE

### X. Stability and Reactivity:

**Stability:**

Stable

**Conditions to Avoid:**

Do not add water

**Incompatible Materials:**

Water, boric oxide + calcium oxide, bromine trifluoride, zinc, furan-2-peroxy-carbolic acid, vinyl ether

**Hazardous Decomposition Products:**

Chlorine, combustible hydrogen gas, hydrogen chloride gas

**Possibility of Hazardous Reactions:**

Has not been reported.

### XI. Toxicological Information:

Hygroscopic. May be harmful if swallowed. May cause severe respiratory and digestive tract irritation with possible burns. May cause severe skin and eye irritation with possible burns. May cause cardiac disturbances.

### XII. Ecological Information:

Prevent from entering sewers or waterways. May be harmful to some aquatic life.

### XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations pursuant to 40 CFR part 261 of the Resource Conservation & Recovery Act (RCRA).

### XIV. Transport Information:

**Shipping Name:** N/A

**DOT Hazard Class:** Not Available

**UN/NA#:** Not Available

**DOT Subsidiary Hazard Class:** Not Available

**Packing Group:** Not Available

**Transportation Information:**

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Calcium chloride, anhydrous, is listed on the TSCA inventory.

**XVI. Other Information:**

**Chemical State:**  Liquid  Gas  Solid  
**Chemical Type:**  Pure  Mixture  
**Hazard Category:**  Acute  Chronic  Fire  Pressure  Reactive

**Additional Manufacturer Warnings:**

Using this product under normal, properly instructed procedures should not be hazardous.

2	Health
0	Flammability
1	Physical Hazard
F	Pers. Protection

**Additional Product Information:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.