

MATERIAL SAFETY DATA SHEET

C
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 16/07/04
Replaces: 09/05/00
Printed: 26/05/06

1. PRODUCT DESCRIPTION

Product Name: Calcium Chloride Pellet Anhydrous
Product Code(s): 85-1840, 85-1842
Size: 500g, 5lbs
Chemical Name: Calcium Chloride
CAS Number: 10043-52-4
Formula: CaCl₂
Synonyms: None available
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components: Calcium Chloride (CAS# 10043-52-4) 94-96%

Sodium Chloride (CAS# 7647-14-5) 1-2%
Potassium Chloride (CAS# 7447-40-7) 2-3%
Strontium Chloride (CAS# 10476-85-4) ~1%

TLV and PEL units: None established

3. HAZARD IDENTIFICATION

Emergency Overview: Causes irritation. May cause eye burns. Avoid contact with eyes, skin, clothing. Avoid breathing dust. Keep in tightly closed container.

Use with adequate ventilation. Wash thoroughly after handling.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): Non-combustible (NA)

NFPA Rating: Health: 1
Fire: 0
Reactivity: 0

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Extinguisher Media:

Use media suitable to extinguish surrounding fire.
Flammable Limits in Air % by Volume: No information available
Autoignition Temperature: No information available
Special Firefighting Procedures:
Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Produces the toxic gas Hydrogen Chloride

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Keep container tightly closed.
Suitable for any general chemical storage area.
Other Precautions: This material is hygroscopic.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):
None needed under normal conditions of use with adequate ventilation.
NIOSH approved equipment should be worn if PELs are exceeded.
Ventilation:

Local Exhaust: Yes
Mechanical(General): Yes
Special: No
Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: 111
Melting Point: 772C (1421F)
Boiling Point: No information available
Vapor Pressure: No information available
Vapor Density(Air=1): Not applicable
Specific Gravity(H2O=1): 2.15
Percent Volatile by Volume: 0 (21C)
Evaporation Rate(H2O=1): Not applicable
Solubility in Water: Appreciable. (<10%)
Appearance and Odor: White pellets. Odorless.

10. REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Moisture
Incompatibility(Materials to Avoid): Most common metals, water, aluminum.
Hazardous Decomposition Products: Hydrogen Chloride

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Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: No information available

Effects of Overexposure: May cause some irritation to the skin, eyes, and mucous membranes. Dust may cause irritation to upper respiratory tract. If ingested, may cause gastrointestinal irritation.

Acute: See section 3

Chronic: No information available

Conditions Aggravated by Overexposure: No information available

Target Organs: Skin, eyes and mucous membranes.

Primary Route(s) of Entry: Eye contact, skin contact, inhalation, and ingestion.

12. ECOLOGICAL DATA

EPA Waste Numbers: None

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Chemical, n.o.s. Non-regulated.

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

	SARA EHS	SARA Sec. 313	CERCLA	RCRA
Product or	Sec. 302	Chemicals	Sec. 103	Sec.
Components	TPQ	Name Chemical	RQ lbs.	
		List Category		
261.33				

Calcium Chloride	No	No	No	No
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16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

DOT.....U.S. Department of Transportation

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IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act