

MATERIAL SAFETY DATA SHEET

CALCIUM CHLORIDE SOLUTION
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00
Replaces: None
Printed: 21/11/01

Swift Science #31

1. PRODUCT DESCRIPTION

Product Name: Calcium Chloride Solution
Product Code(s): 84-0936
Size: 120 ml
Chemical Name: Calcium Chloride
CAS Number: 10043-52-4
Formula: CaCl₂ in solution
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) 5%
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

Extinguisher Media:

Use media suitable to extinguish surrounding fire.

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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. Eliminate all sources of ignition.
Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent 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):
A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is 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,

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aluminum.

Hazardous Decomposition Products: Hydrogen Chloride

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

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

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CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
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