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#### 1. PRODUCT DESCRIPTION

Calcium Chloride Lab Grade Product Name:

85-1800, 20-7920, 20-7922, 82-1050, 84-0900, 85-0140, Product Code(s):

85-0144

Various Size:

Calcium Chloride, Anhydrous

Chemical Name: CAS Number:

10043-52-4

Formula:

CaCl2

Synonyms:

Dowflake; Snomelt; Superflake; Calpus; Caltac

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

Principal Hazardous Components: Calcium Chloride(CAS# 10043-52-4) 90-97% TLV and PEL units: None established

#### 3. HAZARD IDENTIFICATION

Emergency Overview:

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 some water. Do not induce vomiting unless and until directed by medical personnel. Get medical attention immediately. 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 and quiet, and get medical attention.

#### 5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): Non-combustible

NFPA Rating:

Health: 1 Fire: 0 Reactivity: 0

Extinguisher Media:

Use media suitable to extinguish surrounding fire. Flammable Limits in Air % by Volume: No data available.

Autoignition Temperature: No data available.

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce

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hazardous decomposition products of Calcium Oxide and Hydrochloric Acid and/or Chlorine gas.

## **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 well closed. Store in a cool, dry area. Do not get in eyes. Avoid prolonged or repeated skin contact. Do not breathe dust. Wash thoroughly after handling. Do not take internally.

Other Precautions: This material is very hygroscopic. Always use cool water (temperature less than 80F (27C) when dissolving Calcium Chloride. Leather clothing and shoes will be damaged by calcium chloride.

#### 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: Preferred

Mechanical (General): Acceptable

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 apron, eye wash, and safety shower.

#### 9. PHYSICAL DATA

Molecular Weight: 110.99

Melting Point: 772C

Boiling Point: Greater than 1600°C Vapor Pressure: Negligible as solid Vapor Density(Air=1): Not applicable

Specific Gravity (H2O=1): 1.34

Percent Volatile by Volume: Negligble as solid

Evaporation Rate(H2O=1): Not applicable

Solubility in Water: Soluble (74.5g/100cc @ 20°C) Appearance and Odor: White, odorless, granules.

#### 10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Excessive temperature and heat. High humidity and

water. Moisture (material is deliquescent).

Incompatibility (Materials to Avoid): Water, strong oxidizers, metals. Reacts violently with (B2O3+CaO), BrF3. Reaction with zinc releases explosive hydrogen gas. Exothermic reaction with water. Catalyzes

exothermic polymerization of methyl vinyl ether.

Hazardous Decomposition Products: Chlorine compounds. Thermal decomposition or burning may produce Calcium Oxide and Hydrochloric

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Acid.

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: orl-rat LD50: 1000 mg/kg; ivn-mus LD50: 42 mg/kg.

Effects of Overexposure:

Acute: See section 3

Chronic: Mutation data cited. Tumorigenic data cited. Not

listed as causing cancer by IARC, NTP, or OSHA.

Conditions Aggravated by Overexposure: Preexisting conditions of the

skin, eyes, and upper respiratory tract.

Target Organs: No data available.

Primary Route(s) of Entry: No data available.

#### 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

DOT Proper Shipping Name: Non-regulated material.

## 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	Chemi Name	Sec. 313 cals Chemical Category	CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
Calcium Chloride, No		No	No	No	No

Granular

## **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

IARC.....International Agency of Research on Cancer

mppcf.....million particles per cubic foot

N/A.....Not Available

NTP......National Toxicology Program

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OSHAOccupational Safety and Health Administration
PELPermissible Exposure Limit
nomparts per million
RCRA Resource Conservation and Recovery Act
SARASuperfund Amendments and Reauthorization Act TLVThreshold Limit Value
TSCAToxic Substances Control Act