

Fisher Science Education
6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177
Emergency Number: (800) 255-3924

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: S25223, S25223A

Product Identity: Calcium Chloride, Anhydrous

Chemical Family: Not Applicable

Synonyms: Dowflake; Caltac; Calpus

Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 07/11/12

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Section 2 – Hazard Identification

Emergency Overview Irritating to eyes. Hygroscopic.

Appearance: Beige Solid **Odor:** Odorless

Target Organs: Eyes, Central nervous system, blood

Potential Health Effects/ Routes of Exposure:

Eyes: Causes irritation.

Skin: May cause irritation. May be harmful in contact with skin.

Ingestion: May cause gastrointestinal irritation with nausea, diarrhea, and vomiting.

Inhalation: May cause irritation. May be harmful if inhaled.

Chronic Effect / Carcinogenicity: Tumorigenic effects have been reported in laboratory animals.

Aggravated Medical Conditions No information available

These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Calcium chloride, anhydrous, CAS# 10043-52-4, >95% w/v

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Get medical assistance immediately.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Ingestion: DO NOT induce vomiting. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: No information available **Autoignition Temperature:** No information available

Explosion Limits Upper: No data available **Lower:** No data available

Extinguishing Media: Nonflammable. Use appropriate means to extinguish surrounding fire.

Unsuitable Extinguishing Media: No information available.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: No information Available

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Rating: (estimated) Health: 2; Flammable: 0; Reactivity: 1

Section 6 – Accidental Release Measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Up Sweep up spill and containerize for disposal. Use adequate ventilation. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin, eyes and clothes. Do not ingest or inhale. Use adequate ventilation.

Storage: Keep container tightly closed in a cool, dry, well-ventilated area. Protect from freezing and physical damage. Keep product from moisture.

Section 8 – Exposure Controls, Personal Protection

Calcium Chloride, CAS# 10043-52-4, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Normal ventilation is adequate. Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: Beige Solid

Odor: Odorless

Boiling Point: >1600C @ 760 mmHg

Melting Point: 782C

Vapor Density: No Information Available

Evaporation Rate: No Information Available

pH: 8-10 (100g/L aq.sol.)

Flammability: No Information Available

Solubility: Soluble in water

Relative Density: No Information Available

% Volatility: No Information Available

Specific Gravity: Approx 2.15

Vapor Pressure: No Information Available

Flash Point: Not Applicable

Coefficient of water/oil distribution: Not Available

Odor Threshold: Not Available

Decomposition Temperature: Not Available

Partition Coefficient n-octanol/water: Not Available

Molecular Weight: 110.99

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage. Hygroscopic.

Incompatible Materials: Strong oxidizers, metals.

Conditions to Avoid: Incompatible materials

Hazardous Decomposition Products: Chlorine, hydrogen chloride gas.

Hazardous Polymerization: Does not occur

Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2

LD50 orl-rat: 1000 mg/kg

LC50 inhalation-rat: NA

Irritation: Causes eye irritation.

Toxicologically Synergistic: No Information Available

Chronic Exposure

Carcinogenicity There are no known carcinogens in this product.

Sensitization No information available.

Mutagenic Effects Mutagenic effects have been reported in experiments with lab animals.

Reproductive Effects No information available.

Developmental Effects (Immediate/Delayed) No information available.

Teratogenicity No information available.

Other Adverse Effects Tumorigenic effects have been reported in laboratory animals.

Endocrine Disruptor Information No information available

Section 12 – Ecological Information

Ecotoxicity: Do not empty into drains.

Persistence and Degradability: No Information Available

Mobility: No Information Available

Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Containerize for disposal.

All chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT - Not Regulated

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: This chemical is not considered hazardous by OSHA.

Canada DSL: This chemical is listed on Canada's DSL list.

TSCA: This chemical is listed on the TSCA Inventory

SARA Title III Section 313: Not Applicable

RCRA Status: Not Applicable

CERCLA Reportable Quantity: Not Applicable

WHMIS: D2B: Toxic Material.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.