



SAFETY DATA SHEET

Preparation Date: 4/4/2013 Revision Date: 9/25/2018 Revision Number: G4

1. IDENTIFICATION

Product identifier

Product code: C1536

Product Name: CALCIUM CHLORIDE, DESICCANT, REAGENT, ACS

Other means of identification

Synonyms: Calplus

Caltac Snomelt

Superflake anhydrous

CAS #: 10043-52-4
RTECS # EV9800000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Fire extinguishing agent. In desiccators.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

| Acute toxicity - Oral | Category 4 |
|-----------------------------------|------------|
| Serious eye damage/eye irritation | Category 2 |

Label elements

Warning

Hazard statements
Harmful if swallowed

Causes serious eye irritation



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Exothermic reaction with water Dissolves in water releasing heat May be harmful in contact with skin Causes mild skin irritation

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear eye/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % |
|-----------------------------|------------|----------|
| Calcium Chloride, Anhydrous | 10043-52-4 | 100 |

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

> have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect

themselves.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Inhalation:

oxygen. Get medical attention.

Do not induce vomiting without medical advice. Never give anything by mouth to an Ingestion:

unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Product code: C1536 Product name: CALCIUM CHLORIDE, DESICCANT, REAGENT,

Symptoms Irritating to eyes

Irritating to respiratory system

Causes digestive (gastrointestinal) tract irritation

Nausea Vomiting

Central nervous system effects

Drowsiness Convulsions

May affect the cardiovascular system

Cardiac arrhythmias

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Product code: C1536

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products:No information available.

Specific hazards: The substance itself does not burn, but may decompose

upon heating. This material is an inorganic dust/powder and will not create nor support conditions that would result in a dust explosion or fire. When heated to decomposition it emits toxic fumes. Poisonous gases are produced in fire

including chlorine.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal

protective equipment. Avoid dust formation.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent from entering into soil, ditches, sewers, waterways, and/or ground

water.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning upSweep up and shovel into suitable containers for disposal. Avoid creating dust.

Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Deliquescent. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Water

Zinc

Metals

Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

| Components | CAS-No. | OSHA | NIOSH | ACGIH | AIHA WEEL |
|-------------------|------------|------|-------|-------|-----------|
| Calcium Chloride, | 10043-52-4 | None | None | None | None |
| Anhydrous | | | | | |

Canada

| Components | CAS-No. | Canada - Alberta | Canada - British | Canada - Ontario | Canada - Quebec |
|------------|---------|------------------|------------------|------------------|-----------------|
| • | | | | | |

| | | | Columbia | | |
|--------------------------------|------------|------|----------|-------------|------|
| Calcium Chloride, Anhydrous | 10043-52-4 | None | None | 5 mg/m³ TWA | None |

Australia and Mexico

| Components | CAS-No. | Australia | Mexico |
|-----------------------------|------------|-----------|--------|
| Calcium Chloride, Anhydrous | 10043-52-4 | None | None |

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

Skin and body protection: Long sleeved clothing

Chemical resistant apron

Gloves

Respiratory protection: Wear respirator with dust filter.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Crystalline powder. Crystalline. White. Off-white.

Granular. Pellets.

Odor:TasteFormula:None.Saline.CaCl2

Molecular/Formula weight (g/mole): Flammability: Flashpoint (°C/°F):

110.99 No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not applicable No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 772-775 °C/1421.6-1427 °F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

 $> 1600 \,^{\circ}\text{C}/> 2912 \,^{\circ}\text{F}$ No information available 1.34 @ 20 $^{\circ}\text{C}$

2.15 @ 25 °C

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

No information available
No information available
No information available

Product code: C1536 Product name: CALCIUM 5 / 12

CHLORIDE, DESICCANT, REAGENT,

Evaporation rate: Vapor density: VOC content (g/L):
No information available
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Freely soluble in water with liberation of

much heat

Solubility in Water: 75.4 g/l @ 20 °C;

81.3 g/100 g water @ 25 °C

10. STABILITY AND REACTIVITY

Reactivity

Exothermic reaction with water Dissolves in water releasing heat

Reaction with Zinc releases explosive hydrogen gas Bromine trifluoride rapidly attacks calcium chloride

Violent polymerization occurs when mixed with Methyl Vinyl Ether

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Heat. Avoid dust formation. Incompatible materials.

Incompatible Materials: Water

Zinc Metals

Oxidizing agents

Hazardous decomposition

products:

When heated to decomposition it emits toxic fumes. Hydrogen chloride gas.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

| Calcium Chloride, Anhydrous | |
|-----------------------------|------------|
| CAS-No. | 10043-52-4 |

LD50/oral/rat = 1000 mg/kg Oral LD50 Rat

LD50/oral/mouse = 1940 mg/kg

LD50/dermal/rabbit = No information available LD50/dermal/rat = 2630 mg/kg Dermal LD50 Rat LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available

Other LD50 or LC50information = 3798 mg/kg Oral LD50 Rat

4179 mg/kg Oral LD50 Rat 2000 mg/kg Oral LD50 Rat

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 1000 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 1940 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = 2630 mg/kg

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation. Mild skin irritation. Contact with dry skin causes mild skin

irritation. May cause severe irritation and possible burns if skin is wet.

Eye Contact: Causes serious eye irritation. May cause transient corneal injury.

Inhalation Irritating to respiratory system. May cause severe irritation of the upper respiratory

tract with pain, and inflammation.

Ingestion Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. Ingestion

may cause nausea, vomiting. May affect behavior/central nervous system (somnolence, convulsions). May affect the cardiovascular system (cardiac arrhythmias). May affect the cardiovascular system (change in heart rate). May affect blood (changes in serum composition). May affect the blood (changes in

white blood cell count). May affect respiration. It may affect the brain.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: May affect genetic material

Carcinogenic effects: Not considered carcinogenic. Equivocal tumorigenic agent by Registery of Toxic

Effects of Chemical Substances (RTECS) criteria.

| Components | CAS-No. | IARC | ACGIH - Carcinogens | NTP | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|--------------------------------|------------|------------|------------------------|------------|---------------------------|---|---|
| Calcium Chloride, Anhydrous | 10043-52-4 | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

No data is available Reproductive toxicity

Reproductive Effects: No information available **Developmental Effects:** No information available **Teratogenic Effects:** No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure **Target Organs:**

No information available. No information available. No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Calcium Chloride, Anhydrous - 10043-52-4

Freshwater Fish Species Data: 10650 mg/L LC50 Lepomis macrochirus 96 h static 1

Water Flea Data: 52 mg/L EC50 Daphnia magna 48 h

Not inherently biodegradable Persistence and degradability:

Bioaccumulative potential: Does not bioaccumulate.

No information available. **Mobility:**

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Product code: C1536 Product name: CALCIUM

CHLORIDE, DESICCANT, REAGENT,

Empty containers should be taken for local recycling, recovery or waste disposal

| Components | CAS-No. | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|-----------------------------|------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Calcium Chloride, Anhydrous | 10043-52-4 | None | None | None | None |

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Class
Packing group:
No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available
No information available
No Information available
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available
No information available
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available

Subsidiary Risk: No information available Packing Group: No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

15. REGULATORY INFORMATION

International Inventories

| Components | CAS-No. | U.S. TSCA | KOREA KECL | | Japan ENCS | CHINA | | EINECS-No. |
|-------------------|------------|--------------|------------|---------|------------|---------|---------|------------|
| | | | | (PICCS) | | | (AICS) | |
| Calcium Chloride, | 10043-52-4 | Present(ACTI | Present | Present | Present | Present | Present | Present |
| Anhydrous | | VE) | KE-04496 | | (1)-176 | | | 233-140-8 |

U.S. Regulations

Calcium Chloride, Anhydrous

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1193

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components | CAS-No. | Carcinogen | Developmental Toxicity | Male | Female |
|-----------------------------|------------|------------|------------------------|--------------|--------------|
| | | _ | | Reproductive | Reproductive |
| | | | | Toxicity | Toxicity: |
| Calcium Chloride, Anhydrous | 10043-52-4 | Not Listed | Not Listed | Not Listed | Not Listed |

CERCLA/SARA

| Components | CAS-No. | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|--------------------------------|------------|---|---|--|------------------------------------|--|
| Calcium Chloride, Anhydrous | 10043-52-4 | None | None | None | None | None |

U.S. TSCA

| Components | | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|-----------------------------|------------|---|---|
| Calcium Chloride, Anhydrous | 10043-52-4 | Not Applicable | Not Applicable |

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Calcium Chloride, Anhydrous 10043-52-4 (100)

WHMIS 2015 Hazard Classification Serious Eye Damage/Eye Irritation - Category 2A: H319 Causes serious eye irritation.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Inventory

| Components | CAS-No. | | Canada (NDSL) |
|-----------------------------|------------|---------|---------------|
| Calcium Chloride, Anhydrous | 10043-52-4 | Present | Not Listed |

| Components | CAS-No. | CEPA Schedule I - Toxic Substances |
|-----------------------------|--|--------------------------------------|
| Calcium Chloride, Anhydrous | 10043-52-4 | Not listed |
| Components | I and the second | CEPA - 2010 Greenhouse Gases Subject |
| | | to Mandatory Reporting |
| Calcium Chloride, Anhydrous | 10043-52-4 | Not listed |

EU Classification

EU GHS - SV - CLP 1272/2008

| Components | CAS-No. | EU GHS - SV - CLP (1272/2008) |
|-----------------------------|------------|-------------------------------|
| Calcium Chloride, Anhydrous | 10043-52-4 | No information |

EU - CLP (1272/2008)

R-phrase(s)

R36 - Irritating to eyes.

S -phrase(s)

S 2 - Keep out of the reach of children.

S22 - Do not breathe dust.

S24 - Avoid contact with skin.

| Components | CAS-No. | Classification | Concentration Limits: | Safety Phrases |
|--------------------------------|------------|----------------|--------------------------|----------------|
| Calcium Chloride, Anhydrous | 10043-52-4 | Xi; R36 | No information | S2 S22 S24 |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xi - Irritant.



16. OTHER INFORMATION

Product code: C1536

Product name: CALCIUM CHLORIDE, DESICCANT, REAGENT, **ACS**

Preparation Date: 4/4/2013 **Revision Date:** 9/25/2018 Sonia Owen Prepared by:

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: C1536