

## SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Calcium chloride

CAS number 10043-52-4

Synonyms Dowflake; Calpus; Caltac

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

#### **1.3** Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

## **1.4 Emergency telephone**

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious Eye Damage/Eye Irritation	Category 2
Combustible Dust	Yes

## 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Warning
Hazard statements	May form combustible dust concentrations in air. Causes serious eye irritation.
Precautionary statements	Prevention: Wash face, hands, and any exposed skin thoroughly after handling. Wear eye/face protection.
	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
	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.
	Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.
	Disposal: Dispose of contents/container to an approved waste disposal plant.

## **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** None identified.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Calcium chloride	Dowflake; Calpus; Caltac	10043-52-4	<=100%

## **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

## General advice

lf inhaled	Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

**In case of eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**If swallowed** Do NOT induce vomiting. Get medical attention.

- **4.2 Most important symptoms and effects, both acute and delayed** No information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

**Unsuitable extinguishing media** No information available.

## 5.2 Specific hazards arising from the substance or mixture

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Hazardous Combustion Products: Chlorine. Hydrogen chloride gas.

#### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

Flash Point	Point No informat		
Autoignition Temperature	No information available.		
Explosion limits			
Upper	No data available.		
Lower	No data available.		
Sensitivity to Me	echanical Impact	No information available.	
Sensitivity to Static Discharge		No information available.	

NFPA

Health	Flammability	Instability	Physical hazards
2	0	1	N/A

#### **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

#### 6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

**6.3 Methods and materials for containment and cleaning up** Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place.

#### Incompatibilities

Strong oxidizing agents. Metals.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Occupational exposure limits

No information available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

#### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### **Skin protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

No protective equipment is needed under normal use conditions.

#### **Control of environmental exposure**

No information available.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

	Solid
Physical State	00114
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
рН	8-10 (100 g/L aq.sol)
Melting Point/Range	782 °C / 1439.6 °F
Boiling Point/Range	> 1600 °C / > 2912 °F @ 760 mmHg
Evaporation Rate	Not applicable
Flammability (solid)	No information available
Flammability or explosive limit	No data available
Upper	
Lower	
Vapor Pressure	No information available
Vapor Density	Not applicable
Density	No information available
Solubility	Soluble in water
Partition coefficient;	No data available
n-octanol/water	
Autoignition Temp	No information available

Decomposition Temp	No information available
Viscosity	Not applicable
Molecular Formula	Ca Cl2
Molecular Weight	110.99 g/mol
VOC Content(%)	No information available
Oxidizing properties	No information available

#### 9.2 Other safety information

No information available.

#### **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No information available.
- **10.2 Chemical stability** Stable under recommended storage conditions. Hygroscopic.
- **10.3 Possibility of hazardous reactions** None under normal processing.
- **10.4 Conditions to avoid** Incompatible products. Exposure to moist air or water. Excess heat. Avoid dust formation.
- **10.5** Incompatible materials Strong oxidizing agents, Metals.
- **10.6 Hazardous decomposition products** Chlorine, Hydrogen chloride gas.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Product Information, Component Information**

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium chloride	2301 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

#### Skin corrosion/irritation

No information available.

## Serious eye damage/eye irritation

Severe eye irritant.

#### Respiratory or skin sensitization

No information available.

#### Germ cell mutagenicity

Mutagenic effects have occurred in experimental animals.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Calcium chloride	10043-52-4	Not listed				

#### Specific target organ toxicity - single exposure

None known.

## Specific target organ toxicity - repeated exposure

None known.

#### **Reproductive toxicity**

No information available.

#### Chronic effects

No information available.

#### 11.2 Additional Information

Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product		Species	Test Results
Calcium chloride	LC50	Lepomis macrochirus	10650 mg/L/96h
	EC50	Water Flea	52 mg/L/48h

#### 12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available.

#### 12.3 Bio accumulative potential

No information available.

#### 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

## **12.5 Results of PBT and vPvB assessment** No information available.

## **12.6 Endocrine disrupting properties**

No information available.

## 12.7 Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information				
DOT (US)	Not regulated.			
IMDG	Not regulated.			
ΙΑΤΑ	Not regulated.			
SECTION 15: Regulatory information				
US federal	<b>regulations</b> This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not applicable.				
CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.				
	SARA 304 Emergency release notification Not regulated.			
	OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated.			
Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance				

Not listed.

SARA 311/312 Hazardous See Section 2 for more information.

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

## Safe Drinking Water Act

Not regulated.

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

#### **US state regulations**

- US. Massachusetts RTK Substance List Not listed.
- US. New Jersey Worker and Community Right-to-Know Act Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

#### California Proposition 65 Not listed.

## **SECTION 16: Other information**

Issue date: 02/26/2014 Revision 1: 01/27/2025

## **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.