

# Material Safety Data Sheet

## CALCIUM CHLORIDE

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Chemical product name:** CALCIUM CHLORIDE

**Common chemical name:** CALCIUM CHLORIDE

**Company information:** Choice Chemicals Ltd.  
Centre of City, No.235 Wuyi Road, Furong District,  
Changsha, Hunan 410011, P.R. China  
Tel: 0086 731 89856736  
Fax: 0086 731 89878447  
E-mail: info@choice-chem.com

**24 hr Emergency number:** 0086 13298652316

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

<u>Component Name</u>	<u>CAS-No.</u>	<u>Average by Weight</u>
Calcium chloride	10043-52-4	60-100%

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

CAUTION! MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. Avoid contact with eyes, skin and clothing. Avoid breathing airborne product. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

This product is a/an white powder. A nuisance dust. Dike and contain spills. Keep out of sewers and waterways. No significant immediate hazards for emergency response personnel are known.

#### ACUTE EFFECTS:

**HEALTH HAZARDS, GENERAL:** Particulates may cause mechanical irritation to the eyes, nose, throat and lungs. Particulate inhalation may lead to pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma. Dermatitis and asthma may result from short contact periods.

**INHALATION:** Irritating to the respiratory tract if inhaled.

**INGESTION:** Harmful if swallowed. May cause gastric distress, nausea and vomiting if ingested.

**SKIN:** Irritating to the skin.

CHOICE CHEMICALS LTD.

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**EYES:** Irritating to the eyes.

**CHRONIC EFFECTS:**

**CARCINOGENICITY:** IARC: Not listed. OSHA: Not regulated. NTP: Not listed

**ROUTE OF ENTRY:** Inhalation. Skin and/or eye contact.

**TARGET ORGANS:** Respiratory system, lungs. Skin. Eyes.

#### SECTION 4 - FIRST AID MEASURES

**GENERAL:** Persons seeking medical attention should carry a copy of this MSDS with them.

**INHALATION:** Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get medical attention.

**INGESTION:** Drink a couple of glasses water or milk. Do not give victim anything to drink of he is unconscious. Get medical attention.

**SKIN:** Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention if any discomfort continues.

**EYES:** Promptly wash eyes with lots of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### SECTION 5 - FIRE FIGHTING MEASURES

**FLAMMABILITY LIMIT - LOWER(%):** N/D.

**FLAMMABILITY LIMIT - UPPER(%):** N/D.

**EXTINGUISHING MEDIA:** Use extinguishing media appropriate for surrounding fire. Carbon dioxide (CO<sub>2</sub>). Dry chemicals. Foam. Water spray, fog or mist.

**SPECIAL FIRE FIGHTING PROCEDURES:** No specific fire fighting procedure given.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** No unusual fire or explosion hazards noted.

**HAZARDOUS COMBUSTION PRODUCTS:** This material is not combustible. No specific hazardous combustion products noted.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear proper personal protective equipment (see MSDS Section 8).

**SPILL CLEAN-UP PROCEDURES:**

Avoid generating and spreading of dust. Shovel into dry containers. Cover and move

the containers. Flush the area with water. Do not contaminate drainage or waterways. Repackage or recycle if possible.

## SECTION 7 - HANDLING AND STORAGE

### HANDLING PRECAUTIONS:

Avoid handling causing generation of dust. Wear full protective clothing for prolonged exposure and/or high concentrations. Eye wash and emergency shower must be available at the work place. Wash hands often and change clothing when needed. Provide good ventilation. Mechanical ventilation or local exhaust ventilation is required.

**STORAGE PRECAUTIONS:** Store at moderate temperatures in dry, well ventilated area. Keep in original container.

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL, PROTECTION

INGREDIENT NAME:	OSHA PEL:		ACGIH TLV:		OTHER:	
	CAS No.:	TWA:	STEL:	TWA:	STEL:	UNITS:
Calcium chloride	10043-52-4	5		3		mg/3 resp.dus

**INGREDIENT COMMENTS:** No exposure limits noted for ingredient(s). Exposure limits are for Particulates Not Otherwise Classified (PNOC).

### PROTECTIVE EQUIPMENT:



**ENGINEERING CONTROLS:** Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to reduce air contamination and keep worker exposure below the applicable limits.

**VENTILATION:** Supply natural or mechanical ventilation adequate to exhaust airborne product and keep exposures below the applicable limits.

**RESPIRATORS:** Use at least a NIOSH-approved N95 half-mask disposable or reuseable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half-mask disposable or reuseable particulate respirator.

**PROTECTIVE GLOVES:** Use suitable protective gloves if risk of skin contact.

**EYE PROTECTION:** Wear dust resistant safety goggles where there is danger of eye contact.

**PROTECTIVE CLOTHING:** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**HYGIENIC WORK PRACTICES:** Wash promptly with soap and water if skin becomes contaminated. Change work clothing daily if there is any possibility of contamination.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE/PHYSICAL STATE:** Powder, dust.

**Color:** White.

**Odor:** Odorless or no characteristic odor.

**SOLUBILITY DESCRIPTION:** Very soluble in water.

**SOLUBILITY VALUE (g/100g H<sub>2</sub>O 68°F):** 75.

**DENSITY/SPECIFIC GRAVITY (g/ml):** 2.2 **TEMPERATURE (°F):** 68.

**VAPOR DENSITY (air=1):** N/D.

**VAPOR PRESSUR:** N/D. **TEMPERATURE (° F):**

**pH-VALUE, DILUTED SOLUTION:** N/D. **CONCENTRATION (% ,M):**

## SECTION 10 - STABILITY AND REACTIVITY DATA

**STABILITY:** Normally stable.

**CONDITIONS TO AVOID:** Avoid contact with water.

**HAZARDOUS POLYMERIZATION:** Will not polymerize.

**POLYMERIZATION DESCRIPTION:** Not relevant.

**MATERIALS TO AVOID:** Sulfuric acid.

**HAZARDOUS DECOMPOSITION PRODUCTS:** No specific hazardous decomposition products noted.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**TOXIC DOSE - LD 50:** 1000 mg/kg (oral rat).

## SECTION 12 - ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Contact M-I Environmental Affairs for ecological information.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**WASTE MANAGEMENT:** This product, should it become a waste, is not hazardous by U.S. RCRA criteria.

**DISPOSAL METHODS:** Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that containers are empty by RCRA criteria prior to disposal in a permitted industrial landfill.

## SECTION 14 - TRANSPORT INFORMATION

**PRODUCT RQ:** N/A

**U.S. DOT:**

**U.S. DOT CLASS:** Not regulated.

**CANADIAN TRANSPORT:**

**TDGR CLASS:** Not regulated.

**SEA TRANSPORT:**

**IMDG CLASS:** Not regulated.

**AIR TRANSPORT:**

**ICAO CLASS:** Not regulated.

## SECTION 15 - REGULATORY INFORMATION

**REGULATORY STATUS OF INGREDIENTS:**

NAME:	CAS No:	TSCA:	CERCLA:	SARA 302:	SARA 313:	DSL(CAN):
Calcium chloride	10043-52-4	Yes	No	No	No	Yes

**SUS FEDERAL REGULATIONS:**

**WASTE CLASSIFICATION:**

Not a hazardous waste by U.S. RCRA criteria. See Section 13.

**REGULATORY STATUS:**

This Product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented):

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

SARA 311 Categories:

1: Immediate (Acute) Health Effects.

The components of this product are listed on or are exempt from the following international chemical registries:

TSCA (U.S.)

DSL (Canada)

EINECS (Europe)

**STATE REGULATIONS:**

**STATE REGULATORY STATUS:** This product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented):

None.

PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required.

**CANADIAN REGULATIONS:**

**LABELS FOR SUPPLY:**



**REGULATORY STATUS:**

This Material Safety Data Sheet has been prepared in compliance with the Controlled Product Regulations.

Canadian WHMIS Classification: D2B - Other Toxic Effects: Toxic Material

**SECTION 16 - OTHER INFORMATION**

*Disclaimer: Choice Chemicals Ltd.. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.*

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