



1. DESCRIPTION

Trade Name: CALCIUM CHLORIDE

Chemical CLASS: Mineral Salt

Chemical Name: Inorganic salt

Application: De-icing, Food industry, Oil and gas drilling agent Weighting agent. Road stabilization and dust control, Accelerators in concrete, Industrial processing

Supplier: TEAM Chemicals

Telephone: +44 (0)207 408 7700 - +98 912 3717539

Address: No. 43, Souri St., 43 Ashrafi Esfahani Expressway

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name: Calcium Chloride

CAS No.: 10043-52-4

Contents: 77% - 96%

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to heart. Repeated or prolonged exposure to the substance can produce target organs damage.

Potential Acute Health Effects:

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.

EYES: Irritating to the eyes.

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Potential Chronic Health 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.

Irritant YES

Flammable No

Carcinogenic No

Oxidant No

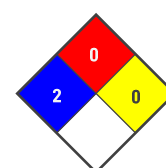
Explosive No

Environmental Hazard No

Corrosive Yes

(Risk-Phrases) R-36

(Safety-Phrases) S-2, S-22, S-24



4. FIRST AID MEASURES

Eye Contact: 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.

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

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA Use extinguishing media appropriate for surrounding fire. Carbon dioxide (CO₂). Dry chemicals. Foam. Water spray, fog or mist.

FIRE FIGHTING No specific

FIRE/EXPLOSION HAZARD No unusual fire or explosion hazards noted.

FIRE INCOMPATIBILITY No unusual incompatibility noted.

PERSONAL PROTECTION This material is not combustible. No specific hazardous combustion products noted.



6. ACCIDENTAL RELEASE MEASURES

Small Spill:

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.

Large Spill:

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient Name	CAS No.	OSHA PEL	ACGIH PEL	OTHER PEL	Units
Calcium chloride	10043-52-4	(TWA: 5 STEL:-)	(TWA: 3 STEL:-)	(TWA: - STEL:-)	mg/m3 resp.dust

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

PERSONAL PROTECTION

RESPIRATOR 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.

EYE Wear dust resistant safety goggles where there is danger of eye contact

HAND/FEET Use suitable protective gloves if risk of skin contact

OTHER Wear appropriate clothing to prevent repeated or prolonged skin contact.

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.



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9. PHYSICAL & CHEMICAL PROPERTIES

Physical state and appearance: Powder, dust

Color: White

Odor: Odorless or no characteristic odor

pH: Not determined

Boiling Point: Not Available

Melting/Freezing Point: 175.5°C (347.9°F)

Specific Gravity: 2.15-2.2 (68F degrees)

Solubility (Water): Very soluble in water.

10. STABILITY & REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Dust generation, exposure to moist air or water, incompatible materials

Materials to Avoid: Not determined

Special Remarks on Reactivity: Not determined

Special Remarks on Corrosivity: Not determined

11. TOXICOLOGICAL INFORMATION

Toxicity to animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: May cause damage to the following organs: heart.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: Causes skin irritation with possible burning sensation especially if skin is wet or moist.

Eyes: Causes eye irritation. Inhalation: Causes respiratory tract and mucous membrane irritation with burning sensation and pain in nasal cavities, occasional nose bleeding and tickling in the throat. Ingestion: May be harmful if swallowed. May cause severe gastrointestinal tract irritation with nausea, and vomiting. May cause cardiac disturbances (slowing of heart rate, arrhythmia, tachycardia, heart fibrillation). May affect behavior (somnia, convulsions). Chronic Potential Health Effects: Ingestion: May affect the musculoskeletal system, blood, brain, heart, and metabolism (weight loss),

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Contact TEAM Environmental Affairs for ecological data.



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13. DISPOSAL CONSIDERATION

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

DISPOSAL METHODS: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORT INFORMATION

U.S. DOT: Not regulated.

U.S. DOT CLASS: Not regulated.

Shipping Description: Not regulated.

15. REGULATORY INFORMATION

Classification:

US 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 represents

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

.Immediate (Acute) Health Effects :1

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

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.

Poisons Schedule (SUSMP): None



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16. ADDITIONAL INFORMATION

NPCA HMIS HAZARD INDEX: 1 Slight Hazard

FLAMMABILITY: 0 Minimal Hazard

REACTIVITY: 1 Slight Hazard

NPCA HMIS PERS. PROTECT. INDEX: E - Safety Glasses, Gloves, Dust Respirator

3 Yearly Revised Primary MSDS

Update in Toxicological Information

Update in Ecological Information



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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. TEAM Chemicals and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.