

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

### **1.1. Product identifier**

**Trade Name:** Calcicoat – Calcium Chloride.

**Use of the Substance:** uses in many industries (Petroleum, Manufactures, Mining, Construction, Chemical industries ...etc.)

**CAS No.:** 10043-52-4

**Molecular Weight:** 111

**Registration number:** 01-2119494219-28-0067

**Chemical Formula:** CaCl<sub>2</sub>

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

CALCICOAT™ Calcium chloride is used in petroleum industry as drilling mud additive and drying petroleum fractions, in cement manufacture to low alkali and acting as a source of chloride. To melt the Highway ice for sidewalks, parking lots and driveways. This high energy should be sprinkled lightly and evenly over ice surfaces at an application rate of about 2 pounds per 200 square feet. Thawing begins immediately.

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

Supplier:

Tradege Foreign Trade Company

Adalet Mah. Manas Blv. 39/2511 Bayrakli

Izmir, Turkey.

E-Mail: [export@tradege.com.tr](mailto:export@tradege.com.tr)

### **1.4 Emergency telephone number**

**Emergency telephone number: +90 5064509208**

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word      Warning

#### Pictograms

GHS07



#### Hazard statements

H319      Causes serious eye irritation

#### Precautionary statements

#### **Precautionary statements - prevention**

P280      Wear protective gloves/eye protection

#### **Precautionary statements - response**

P305+P351+P338      IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contactlenses, if present and easy to do.  
Continue rinsing

P337+P313      If eye irritation persists: Get medical advice/attention

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning



Symbol(s)

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

**SECTION 3. Composition/information on ingredients**

**3.1. Composition: -**

Name	By weight%
Calcium Chloride	94 - 97 %
MgCl <sub>2</sub>	< 1 %
Crystalline water	1 - 3 %
Free water	< 5 %

**SECTION 4. First aid measures**

**4.1 Description of first aid measures**



**General notes**

Take off contaminated clothing.

**Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

**Following skin contact**

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

**Following eye contact**

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

**Following ingestion**

Rinse mouth. Call a doctor if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

Irritation

**4.3 Indication of any immediate medical attention and special treatment needed**

None



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## SECTION 5: Fire and Explosion Data

### 5.1 Extinguishing media



#### Suitable extinguishing media

Co-ordinate firefighting measures to the fire surroundings  
Water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

#### Unsuitable extinguishing media

Water jet

### 5.2 Special hazards arising from the substance or mixture

Non-combustible.

#### Hazardous combustion products

In case of fire may be liberated: Hydrogen chloride (HCl)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus

## SECTION 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe dust.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

### 6.3 Methods and material for containment and cleaning up Advice on how to contain a spill

Covering of drains. Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically. Control of dust.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.



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### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.  
Incom- patible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

#### Precautions:

Keep locked up. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as moisture.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

Store in tightly closed, airtight containers. Store in closed, cleaned, dry and well-ventilated place. Keep away from incompatible substance such as moisture, zinc, steel and materials that support consumption such as oxidizing agents. Product is hygroscopic so protect them against atmospheric moisture. This product is subject to deterioration during storage, the presence of water, humidity will accelerate this deterioration so protect against water and humidity. Protect against heat. Keep away from direct sunlight. Protect against physical damage. Don't put the product directly on the floor, Stored the product on pallets. Ensure that local, federal and national legislation on storage conditions are observed.

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

Data are not available.

#### Human health values

Relevant DNELs and other threshold levels				
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
DNEL	10 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects



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### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment) Eye/face protection



Use safety goggle with side protection.

#### Skin protection



#### Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### Type of material

NBR (Nitrile rubber)

#### Material thickness

>0,11 mm

#### Breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### Respiratory protection





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Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state and appearance:** Solid flakes. (Crystalline solid.)

**Odor:** Odorless.

**Taste:** Saline.

**Molecular Weight:** 110.99 g/mole

**Color:** Colorless. White. Off-white.

**pH (1% soln/water):** 9 [Basic.]

**Boiling Point:** 1670°C (3038°F)

**Melting Point:** 772°C (1421.6°F)

**Critical Temperature:** Not available.

**Specific Gravity:** 2.15 (Water = 1)

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Iconicity (in Water):** Not available.

**Dispersion Properties:** See solubility in water, acetone.

**Solubility:** Easily soluble in cold water, hot water, and acetone.

Freely soluble in alcohol. Soluble in Acetic Acid.

### 9.2 Other information

Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant.

Other safety characteristics: There is no additional information.

## SECTION 10. Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

Hygroscopic solid.

### 10.3 Possibility of hazardous reactions



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Reacts with water, releasing excess pressure or heat, violent reaction with: Strong acid, Dangerous/dangerous reactions with: Zinc => Hydrogen

### 10.4 Conditions to avoid

Protect from moisture.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5

## SECTION 11. Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity				
Exposure route	Endpoint	Value	Species	Source
oral	LD50	2.120 mg/kg	rat	ECHA
dermal	LD50	>5.000 mg/kg	rabbit	ECHA

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**Symptoms related to the physical, chemical and toxicological characteristics**

**If swallowed**

Data are not available.

**If in eyes**

Causes serious eye irritation

**If inhaled**

Data are not available.

**If on skin**

Frequently or prolonged contact with skin may cause dermal irritation

**Other information**

None

**11.2 Endocrine disrupting properties**

Not listed.

**11.3 Information on other hazards**

There is no additional information.

**SECTION 12. Ecological information**

**12.1 Toxicity**

**Eco toxicity:** Eco toxicity in water (LC50): 100 mg/l 96 hours [Fish].

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation:** Not available.

**12.2 Process of degradability**

Data are not available.

**12.3 Bioaccumulative potential**

Data are not available.

**12.4 Mobility in soil**

Data are not available.

#### **12.5 Results of PBT and vPvB assessment**

Data are not available.

#### **12.6 Endocrine disrupting properties**

Not listed.

#### **12.7 Other adverse effects**

Data are not available.

### **SECTION 13: Disposal Considerations**

#### **13.1 Waste treatment methods**



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### **Sewage disposal-relevant information**

Do not empty into drains.

#### **13.2 Relevant provisions relating to waste**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

#### **13.3 Remarks**

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

### **SECTION 14: Transport Information**

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

**Hazchem Code:** Not applicable



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### SECTION 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Federal and State Regulations:**

TSCA 8(b) inventory: Calcium chloride, Anhydrous

**Other Regulations:**

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):** CLASS D-2B: Material causing other toxic effects (TOXIC).

**DSCL (EEC):**

R36- Irritating to eyes.

S2- Keep out of the reach of children.

S22- Do not breathe dust.

S24- Avoid contact with skin.

**Health Hazard: 2**

**Fire Hazard: 0**

**Reactivity: 1**

**Personal Protection: C**

**National Fire Protection Association (U.S.A.):**

**Health: 2**

**Flammability: 0**

**Reactivity: 2**

**Specific hazard:**

Protective Equipment:

Gloves (impervious).

Synthetic apron.

Wear appropriate respirator when ventilation is inadequate.

Safety glasses.

## SECTION 16. Other information

### Label Hazard Warning:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

**Label Precautions:** None.

**Label First Aid:** Not applicable.

**Product Use:** Laboratory Reagent.

### Revision Information:

MSDS Section(s) changed since last revision of document include: **3**

Additional Information: Key Legend Information:

**ACGIH** - American Conference of Governmental Industrial Hygienists

**ANSI** - American National Standards Institute

**CAS** - Chemical Abstracts Service

**CERCLA** - Comprehensive Environmental Response, Compensation & Liability Act of 1980

**CFR** - Code of Federal Regulations

**CHEMTREC** - Chemical Transportation Emergency Center

**DOT** - U.S. Department of Transportation

**DSL** - Canadian Domestic Substance List

**EHS** - Extremely Hazardous Substance

**EPA** - U.S. Environmental Protection Agency

**HMIS** - Hazardous Material Identification System

**IARC** - International Agency for Research on Cancer

**LEL/UEL** - Lower and Upper Explosive Limit

**mg/m<sup>3</sup>** - Milligrams per cubic meter

**MSDS** - Material Safety Data Sheet

**NAERG** - North American Emergency Response Guidebook

**NIOSH** - National Institute of Occupational Safety and Health

**NFPA** - National Fire Protection Association NTP - National Toxicology Program

**OSHA** - Occupational Safety and Health Administration

**PEL** - Permissible Exposure Limit (set by OSHA)

**PPE** - Personal Protective Equipment

**RCRA** - Resource Conservation and Recovery Act of 1976



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**SARA** - Superfund Amendments and Reauthorization Act

**TDG** (Canadian): Transport of Dangerous Goods Regulations

**TLV** - Threshold Limit Value (set by ACGIH)

**TWA** - Time weighted average

**TSCA** - US Toxic Substance Control Act

**WHMIS** - US Workplace Hazardous Material Information System

**Other Special Considerations:** Not available.

**Last Updated:** 13/11/2024.

**Indication of changes (revised safety data sheet)**

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

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