



## SAFETY DATA SHEET CALCIUM CHLORIDE

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

#### 1.1. Product identifier

<b>Product name</b>	CALCIUM CHLORIDE
<b>Product number</b>	260
<b>Synonyms; trade names</b>	CALCIUM (II) CHLORIDE, CALCIUM DICHLORIDE, WATER HARDENER, CALC CHLORIDE, BRISWIM WATER HARDENER, CALCIUM CHLORIDE 0AQ FCC ED 7, CALCIUM CHLORIDE 95/98%, CALC CHLORIDE 77-80% ROAD GRADE
<b>REACH registration number</b>	01-2119494219-28
<b>CAS number</b>	10043-52-4
<b>EU index number</b>	017-013-00-2
<b>EC number</b>	233-140-8

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

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

<b>Supplier</b>	Univar Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 sds@univar.com +44 1274 267306
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#### 1.4. Emergency telephone number

<b>Emergency Contact Number (Office Hours)</b>	+44 1274 267346
<b>Emergency Contact Number (Outside Office Hours)</b>	+441865 407333
<b>Sds No.</b>	260

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

<b>Physical hazards</b>	Not Classified
<b>Health hazards</b>	Eye Irrit. 2 - H319
<b>Environmental hazards</b>	Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Xi;R36

# CALCIUM CHLORIDE

## 2.2. Label elements

EC number 233-140-8

Pictogram



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Product name CALCIUM CHLORIDE

REACH registration number 01-2119494219-28

EU index number 017-013-00-2

CAS number 10043-52-4

EC number 233-140-8

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air at once.

**Ingestion** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 4.2. Most important symptoms and effects, both acute and delayed

#### 4.3. Indication of any immediate medical attention and special treatment needed

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

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

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

## CALCIUM CHLORIDE

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

**Personal precautions** For personal protection, see Section 8. Avoid contact with eyes. Provide adequate ventilation.

### 6.2. Environmental precautions

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

### 6.4. Reference to other sections

#### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation.

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

**Storage precautions** Keep container tightly closed. Keep only in the original container.

### 7.3. Specific end use(s)

#### SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

**DNEL**

- Industry - Inhalation; Long term : 5 mg/m<sup>3</sup>
- Industry - Inhalation; Short term : 10 mg/m<sup>3</sup>
- Consumer - Inhalation; Long term : 2.5 mg/m<sup>3</sup>
- Consumer - Inhalation; Short term : 5 mg/m<sup>3</sup>

### 8.2. Exposure controls

#### Protective equipment



**Eye/face protection** The following protection should be worn: Chemical splash goggles.

**Hand protection** It is recommended that gloves are made of the following material: Neoprene.

**Other skin and body protection** Wear rubber apron. Wear rubber footwear.

**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn.

#### SECTION 9: Physical and Chemical Properties

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

**Appearance** Flakes. Granules. Dusty powder.

**Colour** White.

**Odour** Odourless.

**pH** pH (diluted solution): 8 - 12 10

**Melting point** 772°C

## CALCIUM CHLORIDE

<b>Initial boiling point and range</b>	>1600°C @
<b>Relative density</b>	0.75 - 2.15 @ °C
<b>Solubility(ies)</b>	74.5 @ °C Soluble in water. Soluble in the following materials: acetone Alcohols.

### 9.2. Other information

<b>Molecular weight</b>	111
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	May polymerise.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
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### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

<b>Notes (oral LD<sub>50</sub>)</b>	2301 mg/kg, Oral, Rat
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#### Acute toxicity - dermal

<b>Notes (dermal LD<sub>50</sub>)</b>	5000 mg/kg, Dermal, Rabbit
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#### Serious eye damage/irritation

<b>Serious eye damage/irritation</b>	Irritating to eyes.
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<b>Inhalation</b>	May cause respiratory system irritation.
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<b>Ingestion</b>	May cause discomfort if swallowed.
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<b>Skin contact</b>	May cause skin irritation.
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<b>Eye contact</b>	Irritating to eyes.
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## SECTION 12: Ecological Information

<b>Ecotoxicity</b>	The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
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### 12.1. Toxicity

<b>Toxicity</b>	Not considered toxic to fish.
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<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 13 400 mg/l, Fish
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### 12.2. Persistence and degradability

<b>Persistence and degradability</b>	The product is not biodegradable.
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# CALCIUM CHLORIDE

## 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

## 12.4. Mobility in soil

**Mobility** Mobile. The product is soluble in water.

## 12.5. Results of PBT and vPvB assessment

## 12.6. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

#### 14.4. Packing group

#### 14.5. Environmental hazards

#### 14.6. Special precautions for user

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

### SECTION 15: Regulatory information

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

**National regulations** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

**Guidance** CHIP for everyone HSG228.  
Safety Data Sheets for Substances and Preparations.  
Approved Classification and Labelling Guide (Sixth edition) L131.

#### 15.2. Chemical safety assessment

### SECTION 16: Other information

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 08/10/2010

**Revision** 01

**SDS number** 260

**SDS status** Approved.

**Signature** Jitendra Panchal

## CALCIUM CHLORIDE

<b>Risk phrases in full</b>	R36 Irritating to eyes.
<b>Hazard statements in full</b>	H319 Causes serious eye irritation.