

# SAFETY DATA SHEET



molecular

## CALCIUM CHLORIDE

Safety Data Ref: 1  
Date: 24/01/2008  
Issue No: 7  
Pages: 1 of 2

<b>1 IDENTIFICATION OF SUBSTANCE</b>	<b>Commercial Name</b> <b>Chemical Name</b>	Calcium Chloride Anhydrous, Mono- and Di-hydrates solids and solutions
<b>2 COMPOSITION</b>	<b>Components</b>	<b>%W/W</b> <b>CAS</b> <b>EINECS</b> <b>Supply Class</b> Calcium Chloride    26.5-98%    10043-52-4    233-140-8    Xi;R36
<b>3 HAZARDS IDENTIFICATION</b>		Irritating to eyes
<b>4 FIRST AID MEASURE</b>	<b>Inhalation</b> <b>Skin</b> <b>Eyes</b> <b>Ingestion</b>	Remove from exposure. Obtain medical attention if discomfort persists Drench with clean water. Obtain medical attention if skin becomes inflamed Irrigate thoroughly with clean water. Obtain medical attention Wash out mouth thoroughly. Drink water and seek medical attention if discomfort persists
<b>5 FIRE FIGHTING</b>	<b>Extinguishing Media</b> <b>Fire &amp; Explosion Hazards</b> <b>Protective Measures</b>	Water, Foam, CO <sub>2</sub> , powder are all suitable Material is non-combustible. Packaging may be combustible Breathing apparatus may be needed
<b>6 ACCIDENTAL RELEASE</b>	<b>Personal Precautions</b> <b>Environmental Precautions</b> <b>Recovery</b>	Avoid inhaling dust. Avoid skin and eye contact No hazard Contain material. Sweep or vacuum up. Wash down spillage area with water
<b>7 HANDLING &amp; STORAGE</b>		Store in a clean dry environment. Keep containers closed
<b>8 EXPOSURE CONTROLS</b>	<b>Occupational Exposure Limits</b>	<b>Component</b> <b>TWA/8h</b> Calcium Chloride    5mg/m <sup>3</sup>
<b>PERSONAL PROTECTION</b>	<b>Respiratory</b> <b>Skin</b> <b>Eyes</b> <b>Hygiene</b>	Nuisance dust mask recommended General purpose rubber gloves Glasses or goggles to protect against dust Wash after skin contact
<b>9 PHYSICAL &amp; CHEMICAL PROPERTIES</b>	<b>Appearance</b> <b>Odour</b> <b>pH</b> <b>Relative Density</b> <b>Solubility in water</b>	White solids or colourless liquid None 5-10 2.0 - 2.5 g/cm <sup>3</sup> (solids) Very soluble

Molecular Products Limited  
Mill End  
Thaxted  
Essex CM6 2LT  
United Kingdom

Tel : +44 (0) 1371 830676  
Fax : +44 (0) 1371 830998  
E-mail : sales@molprod.com

# CALCIUM CHLORIDE continued

Safety Data Ref: 1  
Date: 24/01/2008  
Issue No: 7  
Pages: 2 of 2

---

## 10 STABILITY & REACTIVITY

Material is stable. Heat is generated when anhydrous, mono and di-hydrate forms are dissolved in water

---

## 11 TOXICOLOGICAL INFORMATION

Calcium Chloride LD(50) = 1000mg/kg rat

---

## 12 ECOLOGICAL INFORMATION

No risk of prolonged damage to animal or plant life

---

## 13 DISPOSAL CONSIDERATIONS

Disposal by licensed contractor and carrier

---

## 14 TRANSPORT INFORMATION

<b>Transport Classification</b>	None
<b>UN Number</b>	None
<b>Hazard Class</b>	N/A
<b>Packing Group</b>	N/A

---

## 15 REGULATORY INFORMATION

<b>Supply Classification</b>	Irritant
<b>Risk Phrases</b>	R36 Irritating to eyes
<b>Safety Phrases</b>	S22 Do not breathe dust S24 Avoid contact with skin

---

## 16 OTHER INFORMATION

The intended use of this product is as a desiccant, food additive and general industrial or laboratory reagent

For information relating to:

- a) use of product and general enquiries
- b) purchase orders or delivery
- c) technical information and copies of safety data sheets

**Please contact: Molecular Products Ltd, Mill End, Thaxted, Essex CM6 2LT, UK**  
Tel: +44 (0) 1371 830676 Fax: +44 (0) 1371 830998 E.mail: [sales@molprod.com](mailto:sales@molprod.com)

For advice on medical emergencies, fires, spillages or chemical hazards involving warehousing, air, sea, road or rail transportation.

Please contact: National Chemicals Emergency Centre, OX14 3DE  
24 hour emergency number: +44 (0) 1865 407333

---

THE INFORMATION IN THIS SAFETY DATA SHEET IS BASED ON BEST KNOWLEDGE AVAILABLE AT THE TIME AND CURRENT NATIONAL LEGISLATION. IT PROVIDES GUIDANCE ON HEALTH, SAFETY AND ENVIRONMENTAL ASPECTS OF THE PRODUCT AND SHOULD NOT BE CONSTRUED AS ANY GUARANTEE OF TECHNICAL PERFORMANCE OR SUITABILITY FOR PARTICULAR APPLICATION. AS THE SPECIFIC CONDITIONS OF USE ARE OUTSIDE THE CONTROL OF THE SUPPLIER, THE USER IS RESPONSIBLE FOR ENSURING THAT THE PRODUCT IS USED IN A SAFE WAY AND THE REQUIREMENTS OF RELEVANT LEGISLATION ARE COMPLIED WITH.