

# SAFETY DATA SHEET

## CHAMPION WATER HARDENER

MAAA747

### 1. Identification of the substance/preparation and of the company/undertaking

**Product name** : **CHAMPION WATER HARDENER**      **Supplier** : Brenntag UK and Ireland  
 Albion House  
 Rawdon Park  
 Green Lane  
 Yeadon  
 Leeds  
 LS19 7XX

**Chemical product name** : CALCIUM CHLORIDE (ALL GRADES)

**Synonyms** : CALCIUM CHLORIDE (ALL GRADES)

**EMERGENCY ONLY TELEPHONE NUMBER** : (N.C.E.C. CULHAM) 01865 407333      **Telephone No.** : (0113) 3879200

**Fax No.** : (0113) 3879280

**Formula** : CaCl<sub>2</sub>      **Molecular Mass** : 147.02

### 2. Composition/information on ingredients

**Substance/Preparation** : Substance

Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) CALCIUM CHLORIDE (ALL GRADES)	10043-52-4	100	233-140-8	Xi	R36

\* Occupational Exposure Limit(s), if available, are listed in Section 8

**Composition** : SPECIFICATION WILL BE GIVEN ON REQUEST

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

**EINECS Number** : 233-140-8

### 3. Hazards identification

**Human health hazards** : Irritating to eyes.

### 4. First-aid measures

#### First-Aid measures

- Inhalation** : Remove from exposure. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. Do not use mouth to mouth ventilation. Obtain medical attention urgently.
- Ingestion** : Wash out mouth with water. Do not induce vomiting. Obtain medical attention.
- Skin contact** : Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing as washing proceeds. Obtain medical attention if blistering occurs or redness persists.
- Eye Contact** : Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention urgently.

#### Effects and symptoms

- Inhalation** : Exposure to dust at high concentrations may have the following effects:- severe irritation of nose, throat and respiratory tract. coughing. difficulty with breathing.
- Ingestion** : A large dose may have the following effects:- severe irritation of mouth, throat and digestive tract. gastric perforation. dehydration. kidney damage.
- Skin contact** : Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
- Eye Contact** : Dust will cause severe conjunctival irritation and corneal damage.

### 5. Fire-fighting measures

#### Extinguishing Media

**Suitable** : Select extinguishing agent appropriate to other materials involved.

**Unusual fire/explosion Hazards** : This product may give rise to hazardous fumes in a fire.

**Special fire-fighting procedures** : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

**Protection of fire-fighters** : Wear full protective clothing and self-contained breathing apparatus.

## 6. Accidental release measures

- Personal Precautions** : Wear appropriate protective clothing. Wear respiratory protection.
- Environmental precautions and cleanup methods** : Sweep up into suitable containers for recovery or disposal. Finally flush area with plenty of water.
- : Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

## 7. Handling and storage

- Handling** : Use in well ventilated area. Avoid inhaling dust. Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available.
- Storage** : Storage area should be: cool, well ventilated, dry. Store away from sources of heat or ignition. For increased shelf life, it is recommended to cover with tarpaulin for longer outdoor storing periods. The product is available in shrinkwrapped, uv-stabilized polyethylene bags, Avoid storing sacks in a large stack to prevent the product from caking.
- Packaging materials**
- Recommended use** : Use original container.

## 8. Exposure controls/personal protection

- Engineering measures** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Workplace Exposure Limits** : Not available.
- Personal protective equipment**
- Respiratory system** : Dust respirator.
- Skin and body** : Wear: PVC or other impermeable suit. PVC or rubber boots.
- Hands** : PVC or rubber gloves.
- Eyes** : Chemical goggles.

## 9. Physical and chemical properties

- Physical state** : Solid. Flakes.
- Colour** : White.
- Odour** : Odourless.
- Boiling point** : >1600
- Melting point** : 772
- Density** : Not available.
- Solubility** : Partially soluble.
- pH** : 9.8 (5% aqueous solution)
- Flash point** : Not available.

## 10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Exposure to water or moisture.
- Materials to avoid** : Zinc. Strong acids.

## 11. Toxicological information

- Local effects**
- Eye irritation** : Hazardous in case of eye contact (irritant).
- Acute toxicity** : LD50: Not available.  
LC50: Not available.

## 12. Ecological information

- Ecotoxicity** : The product is expected to be no worse than practically non-toxic to aquatic species.

**13. Disposal considerations**

**Methods of disposal ; Waste of residues ; Contaminated packaging** : Dispose of in accordance with all applicable local and national regulations.

**Waste Classification** : Not applicable.

**14. Transport information**International transport regulations

**UN :** **UN number** Non hazardous for transport.

**15. Regulatory information**EU Regulations

**Hazard symbol(s)** :



**Classification** : Irritant

**Risk Phrases** : R36 Irritating to eyes.

**Safety Phrases** : S22 Do not breathe dust.  
S24 Avoid contact with skin.

**Product Use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.  
- Consumer applications.

**16. Other information**HISTORY

**Date of printing** : 06/04/2009.

**Date of issue** : 17/11/2006.

**Date of previous issue** : No Previous Validation.

**Version** : 1.01

**Prepared by** : Michael Hale / Alistair Hunter

Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

**Version** 1.01

**Page:** 3/3