

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

1.1 Product Identifier Calcium Hardness

Trade Name: Calcium Chloride
CAS No: 10043-52-4
EC No: 233-140-8
Index No: 017-013-00-2

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Uses: Preparation of swimming pool water
Restrictions: At this time we do not yet have information on identified uses.

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category	Target Organs	Hazard Statements
Eye Irrit	Category 2		H319

For the full text of the H statements mentioned in this section see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Irritant	R36

For the full text of the R phrases mentioned in this section see Section 16.

Most important adverse effects

Human Health:	See section 11 for toxicological information.
Physical & Chemical Hazards:	See section 9 for toxicological information.
Potential environmental effects:	See section 12 for toxicological information.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:



Signal word:

Warning

Hazard statements:

H319 Causes serious eye irritation

Precautionary statements:

P102 Keep out of reach of children
P260 Do not breathe dust
P262 Wear suitable gloves
P305+351+338: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

Hazardous components which must be listed on the label

Calcium Chloride

2.3 Other Hazards

No other information is available.

Trade Name: Calcium Hardness

3. Composition/information on ingredients

3.1 Substances

Chemical nature: Granular

Chemical Name	Identification Numbers			Amount %
	CAS-No.	EC-No.	Index No	
Calcium Chloride	10043-52-4	233-140-8	017-013-00-2	77%

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If inhaled: Remove casualty to fresh air; Get medical attention. Dust may irritate throat and respiratory system and cause coughing.

In case of skin contact: Wash off with plenty of water. Generally the product does not irritate the skin.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention

If swallowed: Clean mouth with water and drink afterwards plenty of water. DO NOT INDUCE VOMITING. Get medical attention if discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No further information available.

Effects: No further information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat Symptomatically.

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media: No information available.

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire: Currently we do not have any information from our supplier about this.

5.3 Advice for fire-fighters

Special protective equipment: Wear appropriate body protection (full protective suit).

Further Information: No further information available

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment. Provide adequate ventilation. Avoid contact with skin and eyes.

6.2 Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or water bodies.

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Further information Treat recovered material as described in the section "Disposal considerations"

6.4 Reference to other sections

For personal protection see section 8

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory protection. If ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers: Store in original container

Advice on protection against fire and No special measures required

7.2 Conditions for safe storage, including any incompatibilities.

Further information on storage conditions: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Advice on common storage: Keep away from food, drink and animal feeding stuffs.

German storage class: No information is available.

7.3 Specific end uses

Specific use(s) No information is available.

8. Exposure control/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure controls

Engineering measures Refer to protective measures listed in sections 7 and 8.

General Information: Use in a well ventilated area

Personal protective equipment

Respiratory protection Advice: In case of brief exposure or low pollution use respiratory filter device. In case of longer exposure use self-contained device.

8. Exposure control/personal protection**8.2 Exposure controls**

Hand protection	Advice: Use rubber or other Impervious gloves
Glove thickness:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	Advice: Chemical goggles
Skin and body protection	Advice: Wear appropriate clothing to prevent repeated or prolonged skin contact

Environmental exposure controls

General advice: Dispose of in accordance with all applicable local and national regulations,

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form:	Granular
Colour:	White
Odour:	Odourless
Odour Threshold:	Currently we do not have any information from our supplier about this.
pH @ 20°C:	8 - 9
Solidification point	Currently we do not have any information from our supplier about this.
Boiling point/boiling range:	1600°C
Melting Point	29.92°C
Flash point:	772°C
Evaporation rate:	Currently we do not have any information from our supplier about this.
Flammability (solid, gas)	Currently we do not have any information from our supplier about this.
Upper explosion limit:	Product does not present an explosion hazard
Lower explosion limit:	Product does not present an explosion hazard
Vapour pressure:	Currently we do not have any information from our supplier about this.
Relative vapour density:	Currently we do not have any information from our supplier about this.
Density @ 20°C:	Currently we do not have any information from our supplier about this.
Water solubility:	Fully soluble
Partition coefficient:n-octanol/water:	Currently we do not have any information from our supplier about this.
Ignition temperature:	Currently we do not have any information from our supplier about this.
Thermal decomposition:	Currently we do not have any information from our supplier about this.
Viscosity, kinematic:	Currently we do not have any information from our supplier about this.
Explosive properties:	Product is not explosive.
Oxidising properties:	Currently we do not have any information from our supplier about this.

9.2 Other Information**10. Stability and reactivity****10.1 Reactivity**

Advice: No information available.

10.2 Chemical stability

Advice: No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions: Currently we do not have any information from our supplier about this.

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10. Stability and reactivity

10.4 Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Water, moisture

10.5 Incompatible materials

Materials to avoid Currently we do not have any information from our supplier about this.

10.6 Hazardous decomposition products

Hazardous decomposition products: When heated toxic and corrosive vapours/gases may be formed

11. Toxicological Information

11.1 Information on toxicological effects

LD/LC50 values relevant for classification:

Acute Toxicity **10043-52-4 Calcium Chloride**
Value type LD50 Oral
Value 1,000mg/kg
Species Rat

Primary irritant effect:

on the skin: Irritating to skin
on the eye: Irritating to eyes

Sensitization: No sensitizing effects known.

Chronic toxicity Currently we do not have any information from our supplier about this.

Carcinogenicity Currently we do not have any information from our supplier about this.

Mutagenicity Currently we do not have any information from our supplier about this.

Further information

Other relevant toxicity information: Irritating to respiratory system.
May cause discomfort if swallowed

12. Ecological Information

12.1 Toxicity

Aquatic Toxicity:	10043-52-4	calcium hypochlorite
LC50	96 hrs 4630 g/l	Fish
EC50	48 hrs 2770 mg/l	Daphnia Magna

12.2 Persistence and degradability

Remarks: Currently we do not have any information from our supplier about this.

12.3 Bioaccumulative potential

Remarks: Currently we do not have any information from our supplier about this.

12.4 Mobility in soil

Remarks: Currently we do not have any information from

12.5 Results of PBT and PvB

Remarks: No information available

12.6 Other adverse effects

Trade Name: Calcium Hardness

13. Disposal Considerations

13.1 Waste treatment methods

- Product: Disposal together with normal waste is not allowed. Special disposal is required according to local regulations. Do not let product enter drains. Contact waste disposal services.
- Contaminated packaging: Empty contaminated packaging thoroughly. They can be re-cycled after thorough and proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same manner as the product
- European Waste Catalogue No: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport Information

This product is not covered by international regulation of dangerous goods.

- 14.1 UN Number Not applicable
- 14.2 UN proper shipping name Not applicable
- 14.3 Transport hazard class(es) Not applicable
- 14.4 Packaging Group Not applicable
- 14.5 Environmental hazards Not applicable
- 14.6 Special precautions for user Not applicable
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

15. Regulatory information

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

Guidance Notes

Workplace exposure Limits EH40

EU Legislation

Regulation (EC) No1907/2006 of the European Parliament and of the council of 18 December 2006 concerning the registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establish a Europeans Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 193/93 and 2000/21/EC, including amendments. Regulation (EC) No. 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 675/548?EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2 Chemical Safety Assessment

Currently we do not have any information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3
 R36 Risk of serious damage to eyes

Full text of H-statements referred to under sections 2 and 3
 H319 Causes serious eye irritation

Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

• Abbreviations and acronyms:

ADR: Accord europeen sur le transport des marchandises dangereuse par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR Dangerous goods Regulations by the 'International Air Transport Association' (IATA)
 ICAO: International Civil Aviation Organization
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS European Inventory of Existing Commercial Chemical Substances.
 CAS: Chemicals Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

Revision	Date	By	Amendment
1	08/03/2007	Linda Brueford	Created
2	07/06/2011	Linda Brueford	Updated to latest legislation; GHS label elements added and other minor editorial amendments
3	06/12/12	Linda Brueford	Sections: 9/ 11 / 12 / 15 and other minor editorial amendments