

Material Safety Data Sheet
According to 91/155 EEC

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

- **Trade Name:** Calcium Hardness Raiser, Spa Hardness Plus
- **Other names** Calcium Chloride, Hardness Plus, Hardness Increaser, Hardness Up
- **Intended use of chemical** Preparation / Balance of water
- **Manufacturer/Supplier** E.J.Payne Ltd, 1 Belgrave Road, Longton, Stoke-on-Trent, Staffordshire, ST3 4PR
Tel: +44 (0) 1782 312534
Fax: +44 (0) 1782 599868

2. Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description** 22691-02-7 Calcium chloride

3. Hazard Identification

- **Hazard description**



Xi Irritant

- **Hazard Information concerning particular hazards for human and the environment**

R36 Irritating to eyes

4. First Aid measures

- **After inhalation:** Supply fresh air or oxygen; call for doctor in case of complaints
- **After skin contact:** Generally the product does not irritate the skin
- **After eye contact:** Rinse opened eye for several minutes under running water. Call a doctor immediately.
- **After Ingestion:** If swallowed seek medical advice immediately (show the label where possible).

5. Fire fighting measures

- **Special extinguishing media:** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special protective equipment:** No special measures required

6. Accidental release Measures

- **Personal Protection** Not required
- **Environmental Protection** Do not allow product to reach sewage system or water bodies.
- **Methods for cleaning:** Pick up mechanically

7. Handling and storage

- **Personal Protection** Avoid contact with eyes. Prevent formation of dust
- **Storage** No special requirements

8. Exposure control/personal protection

- **Exposure control limits and source:** Not required
- **Eye Protection** Wear appropriate safety goggles
- **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of longer exposure use self-contained device.
- **Skin Protection** Avoid prolonged contact with skin by wearing appropriate clothing.
- **Hand Protection** Wear gloves of a material impermeable and resistant to the product/substance/the preparation.



9. Physical and chemical properties

- **Appearance at 20oC** Colourless Solid
- **Odour** Characteristic
- **Specific gravity at 20oC** 1.71 g/cm³
- **Boiling Point** Undetermined
- **Melting Point** 29.92°C
- **Flash Point** 0°C
- **Solubility in water** 593 g/l
- **Solids Content** 100%

10. Stability and reactivity

- **Conditions to avoid** No decomposition if used according to specifications.
- **Materials to avoid** None known
- **Hazardous decomposition products** None known

11. Toxicological Information

- **Sensitization** No sensitization effects known
- **Skin** No irritating effect on the skin
- **Eyes** Irritating effect on eyes

12. Ecological Information

- **General** Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water. Do not allow undiluted product or large quantities to reach ground water, water bodies or sewage system.

13. Disposal Considerations

- **Substance** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Container** Disposal must be made according to official regulations
- **Recommended cleaning agent** Water, if necessary with cleaning agent

14. Transport Information

- **Not classified**

15. Regulatory information

• Product Name	Calcium chloride
• Symbol	Xi
• Indications of danger	Irritant
• Risk phrases	R36 Irritating to eyes
• Safety phrases	S2 Keep out of the reach of children S22 Do not breathe dust S24 Avoid contact with skin S46 If swallowed seek medical advice immediately (show the label where possible).

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.