

Material Safety Data Sheet
According to 91/155 EEC

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

- **Trade Name:** **Calcium Hypochlorite**
 - **Other names** Calcium Hypochlorite Granules, Granular Shock, Calchlor Granules, Chlorine Shock Granules
 - **Intended use of chemical** Pool and spa shock/water sanitiser.
 - **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** 7778-54-3 Calcium Hypochlorite
- **EINECS Number:** 231-908-7
- **EU Number:** 017-012-00-7

3. Hazard Identification



C: Corrosive



O: Oxidising



N: Dangerous for the environment

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

- R 8 Contact with combustible material may cause fire.
- R 22 Harmful if swallowed.
- R 31 Contact with acids liberates toxic gas.
- R 34 Causes burns.
- R 50 Very toxic to aquatic organisms

4. First Aid measures

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor
- **After Ingestion:** Call for a doctor immediately. Drink plenty of water and provide fresh air. Call for a doctor immediately

5. Fire fighting measures

- **Special extinguishing media:** Extinguishing powder. Do not use water
- **Special exposure hazards in fire:** Oxidising agent
- **Special protective equipment:** Wear self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

6. Accidental release Measures

- **Personal Protection** Wear protective equipment. Keep unprotected persons away.
- **Methods for cleaning:** Use neutralizing agent. Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents

7. Handling and storage

- **Personal Protection** Avoid contact with eyes
- **Storage** Keep container tightly sealed
Store in cool dry conditions

8. Exposure control/personal protection

- **Exposure control limits and source:** No exposure limit established
- **Hand Protection** Wear suitable chemical resistant gloves
- **Eye Protection** Wear appropriate safety goggles



9. Physical and chemical properties

- **Appearance at 20oC** White Powder
- **Odour** Chlorinous
- **Specific gravity at 20oC** 2.35 g/cm³
- **pH (conc)** 12
- **Melting Point** 100°C
- **Flammability (solid, gaseous)** Contact with combustible material may cause fire.
- **Flash Point** Not applicable.
- **Decomposition temperature** 177°C
- **Solubility in water** 217 g/l

10. Stability and reactivity

- **Conditions to avoid** No decomposition if used according to specification.
- **Materials to avoid** No dangerous reactions known
- **Hazardous decomposition products** Chlorine, hydrochloric acid

11. Toxicological Information

- **Ingestion** Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.
- **Skin** Caustic effect on skin and mucous membranes.
- **Eyes** Strong caustic effect.
- **Toxicity** **7778-54-3 calcium hypochlorite**
Oral LD50 850 mg/kg (rat)

12. Ecological Information

- **Mobility** Very toxic for fish
- **Persistence and degradability** Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach sewage water or drainage ditch undiluted or unneutralized.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
Danger to drinking water if even extremely small quantities leak into the ground.

13. Disposal Considerations

- **Substance** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Container** Disposal must be made according to official regulations

14. Transport Information

- **U N No** 2880
- **Proper shipping name** Calcium Hypochlorite hydrated
- **Class/division** 5.1
- **Packing group** II
- **Hazard I D No** 50
- **EAC** 2
- **Pollutant** May be considered a marine pollutant
- **Classification**

15. Regulatory information

- **Product Name** Calcium Hypochlorite
- **Symbol** Corrosive, Oxidising, Dangerous for the Environment
- **Indications of danger**
- **Risk phrases**
 - R 8 Contact with combustible material may cause fire.
 - R 22 Harmful if swallowed.
 - R 31 Contact with acids liberates toxic gas.
 - R 34 Causes burns.
 - R 50 Very toxic to aquatic organisms
- **Safety phrases**
 - S1/2 Keep locked up and out of the reach of children.
 - S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - S61 Avoid release to the environment. Refer to special instructions/safety data sheets

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.