



**SAFETY DATA SHEET**  
**CALCIUM SULPHATE DIHYDRATE**

**Page:** 1

**Compilation date:** 27/05/2015

**Revision No:** 1

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** CALCIUM SULPHATE DIHYDRATE

**CAS number:** 10101-41-4

**EINECS number:** 231-900-3

**Product code:** GPC3635

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of substance / mixture:** Manufacture of substances. Laboratory chemicals.

**1.3. Details of the supplier of the safety data sheet**

**Company name:** Atom Scientific Ltd

Unit 2B East Tame Business Park

Rexcine Way

Hyde

Cheshire

SK14 4GX

United Kingdom

**Tel:** +44 161 366 5123

**Fax:** +44 170 433 7167

**Email:** technical@atomscientific.com

**1.4. Emergency telephone number**

**Emergency tel:** +44 161 366 5123

(office hours only)

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CLP:** This product has no classification under CLP.

**2.2. Label elements**

**Label elements:** This product has no label elements.

**2.3. Other hazards**

**Other hazards:** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**PBT:** This product is not identified as a PBT/vPvB substance.

[cont...]

**SAFETY DATA SHEET**  
**CALCIUM SULPHATE DIHYDRATE**

Page: 2

### Section 3: Composition/information on ingredients

#### 3.1. Substances

**Chemical identity:** CALCIUM SULPHATE DIHYDRATE

**CAS number:** 10101-41-4

**EINECS number:** 231-900-3

**Contains:** Molecular Formula: CaSO4·2H2O

Molecular Weight: 172.17 g/mol.

### Section 4: First aid measures

#### 4.1. Description of first aid measures

**Skin contact:** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Keep the affected person warm and at rest.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** May be harmful if absorbed through the skin. There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely. The vision may become blurred.

**Ingestion:** May be harmful if swallowed. There may be soreness and redness of the mouth and throat. May cause irritation of the digestive tract. There may be difficulty swallowing. There may be vomiting. Nausea and stomach pain may occur.

**Inhalation:** May be harmful if inhaled. There may be a feeling of tightness in the chest with shortness of breath. May cause respiratory tract irritation. Exposure may cause coughing or wheezing. May cause drowsiness and dizziness.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media:** Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder. Sand. Do not use water jet as extinguisher as this will spread the fire.

[cont...]

**SAFETY DATA SHEET**  
**CALCIUM SULPHATE DIHYDRATE**

Page: 3

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** In combustion emits toxic fumes.

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Use water spray to cool unopened containers.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**6.2. Environmental precautions**

**Environmental precautions:** Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections**

**Reference to other sections:** For personal protection, see section 8. For waste disposal, see section 13.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Avoid direct contact with the substance. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Suitable packaging:** Must only be kept in original packaging.

**7.3. Specific end use(s)**

**Specific end use(s):** No other specific uses stipulated other than the uses mentioned in section 1.2.

**Section 8: Exposure controls/personal protection**

[cont...]

**SAFETY DATA SHEET**  
CALCIUM SULPHATE DIHYDRATE

Page: 4

#### **8.1. Control parameters**

**Workplace exposure limits:** No data available.

#### **8.1. DNEL/PNEC Values**

**DNEL / PNEC** No data available.

#### **8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area. Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after breaks and at the end of workday.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with application laws and good laboratory practises. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Eye protection:** Use equipment for eye protection tested and approved under appropriate government standards.

**Skin protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Environmental:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **Section 9: Physical and chemical properties**

#### **9.1. Information on basic physical and chemical properties**

**State:** Powder

**Colour:** White

**Odour:** Odourless

**Solubility in water:** Soluble

**Melting point/range °C:** 14,500

**Relative density:** 2.32

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**SAFETY DATA SHEET**  
**CALCIUM SULPHATE DIHYDRATE**

Page: 5

## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

**Materials to avoid:** Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes. In the event of fire: see section 5

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicity values:** No data available.

### Symptoms / routes of exposure

**Skin contact:** May be harmful if absorbed through the skin. There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely. The vision may become blurred.

**Ingestion:** May be harmful if swallowed. There may be soreness and redness of the mouth and throat. May cause irritation of the digestive tract. There may be difficulty swallowing. There may be vomiting. Nausea and stomach pain may occur.

**Inhalation:** May be harmful if inhaled. There may be a feeling of tightness in the chest with shortness of breath. May cause respiratory tract irritation. Exposure may cause coughing or wheezing. May cause drowsiness and dizziness.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** No data available.

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**SAFETY DATA SHEET**  
CALCIUM SULPHATE DIHYDRATE

Page: 6

#### **12.2. Persistence and degradability**

**Persistence and degradability:** Biodegradable.

#### **12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No data available.

#### **12.4. Mobility in soil**

**Mobility:** Soluble in water.

#### **12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

#### **12.6. Other adverse effects**

**Other adverse effects:** Avoid release to the environment.

### **Section 13: Disposal considerations**

#### **13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Disposal of packaging:** Dispose of as unused product.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### **Section 14: Transport information**

**Transport class:** This product does not require a classification for transport.

### **Section 15: Regulatory information**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Specific regulations:** This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **15.2. Chemical Safety Assessment**

**Chemical safety assessment:** For this product a chemical safety assessment was not carried out.

### **Section 16: Other information**

#### **Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.