

**Safety Data Sheet**

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date:** : 12.19.2014**Calcium Sulfate, Dihydrate****SECTION 1: Identification of the substance/mixture and of the supplier****Product name:** Calcium Sulfate, Dihydrate**Manufacturer/Supplier Article number:** CA0500**Recommended uses of the product and restrictions on use:** Laboratory Chemicals**Manufacturer Details:**

AquaPhoenix Scientific, Inc.  
 860 Gitts Run Road  
 Hanover, PA 17331  
 1-717-632-1291

**Emergency telephone number:****ChemTel: (24-hour)**

+1(800)255-3924

+1(813)248-0585 (International)

**SECTION 2: Hazards identification****Classification of the substance or mixture:**

Not classified for physical or health hazards under GHS.

**Signal word:** None**Hazard statements:**

None

**Precautionary statements:**

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

**Other Non-GHS Classification:** None**SECTION 3: Composition/information on ingredients****Ingredients:**

Ingredients:		
CAS 7778-16-9	Calcium Sulfate, Dihydrate	>95 %
Percentages are by weight		

**SECTION 4: First aid measures****Description of first aid measures****After inhalation:**

Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.

**After skin contact:**

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Seek medical advice if discomfort or irritation persists. Wash off with soap and plenty of water for 15 minutes.

**After eye contact:**

Protect unexposed eye. Remove contact lenses, if present and easy to do, and continue rinsing. Immediately flush eyes with water for at least 15 minutes. Seek medical attention immediately.

**After swallowing:**

Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention immediately.

**Most important symptoms and effects, both acute and delayed:**

Irritation. Nausea. Headache. Shortness of breath.

**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention provide SDS document to physician.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing agents:**

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam. Follow Chemical Hygiene Plan.

**Unsuitable extinguishing agents:** None**Special hazards arising from the substance or mixture:**

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors.

**Advice for firefighters:****Protective equipment:**

Wear protective eyewear, gloves, and clothing.

**Additional information (precautions):**

Fire Fighting Instructions. Use spark-proof tools and explosion-proof equipment. Use normal procedures. Use protective clothing. Use NIOSH approved breathing equipment.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Keep product and empty container away from heat and sources of ignition. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Avoid dust generation. Use spark-proof tools and explosion-proof equipment.

**Environmental precautions:**

Prevent from reaching drains, sewer, or waterway. Collect contaminated soil for characterization per Section 13.

**Methods and material for containment and cleaning up:**

Sweep up and containerize for disposal. Avoid generating dust. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. If necessary use trained response staff or contractor. If artificial respiration is necessary use NIOSH-approved breathing apparatus.

**Reference to other sections:** None**SECTION 7: Handling and storage****Precautions for safe handling:**

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Avoid contact with skin, eyes and clothing. Dust deposits should not be allowed to accumulate on surfaces. Do not inhale gases, fumes, dust, mist, vapor, and aerosols. Follow Chemical Hygiene Plan. Wear personal protective equipment. Wash hands after handling. Dust may form an explosive mixture if sufficient concentration is released into the atmosphere. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Do not eat, drink, smoke, or use personal products when handling chemical substances. Use only in well ventilated areas.

**Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed in a cool, dry, well-ventilated area. Keep away from food, beverages, and feed sources. Keep product and empty container away from heat and sources of ignition. Protect from freezing and physical damage.

**SECTION 8: Exposure controls/personal protection****Control parameters:**

10101-41-4, Calcium Sulfate, Dihydrate, ACGIH 10 mg/m<sup>3</sup> TWA (inhalable fraction, listed under Calcium sulfate).

**Appropriate engineering controls:**

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Use spark-proof tools and explosion-proof equipment.

**Respiratory protection:**

Normal ventilation is adequate. Use NIOSH approved breathing equipment. Fire Fighting Instructions. When necessary use NIOSH approved breathing equipment. Use normal procedures. Use protective clothing.

**Protection of skin:**

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Wear protective clothing according to the concentration and amount of the dangerous substance at the specific workplace.

**Eye protection:**

Safety glasses with side shields or goggles.

**General hygienic measures:**

Wash hands before breaks and at the end of work. Wash hands and exposed skin with soap and plenty of water. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Remove contaminated clothing and shoes. Wash contaminated clothing.

**SECTION 9: Physical and chemical properties**

<b>Appearance (physical state, color):</b>	White solid	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	No information No information
<b>Odor:</b>	Odorless	<b>Vapor pressure at 20°C:</b>	Not applicable
<b>Odor threshold:</b>	Not applicable	<b>Vapor density:</b>	Not applicable
<b>pH-value:</b>	7 (5% aqueous sol.)	<b>Relative density:</b>	No information
<b>Melting/Freezing point:</b>	Not available	<b>Solubilities:</b>	None
<b>Boiling point/Boiling range:</b>	Not applicable	<b>Partition coefficient (n-octanol/water):</b>	Not applicable

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<b>Flash point (closed cup):</b>	Not applicable	<b>Auto/Self-ignition temperature:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable	<b>Decomposition temperature:</b>	140°C
<b>Flammability (solid, gaseous):</b>	No information	<b>Viscosity:</b>	a. Kinematic: Not applicable b. Dynamic: Not applicable
<b>Density at 20°C:</b>	Not applicable		

**SECTION 10: Stability and reactivity****Reactivity:** None**Chemical stability:**

Stable under normal conditions.

**Possible hazardous reactions:** None**Conditions to avoid:**

Incompatible materials, excess heat, and dust formation.

**Incompatible materials:**

Strong oxidizers.

**Hazardous decomposition products:**

Sulphur oxides.

**SECTION 11: Toxicological information****Acute Toxicity:** No additional information.**Chronic Toxicity:** No additional information.**Skin corrosion/irritation:** No additional information.**Serious eye damage/irritation:** No additional information.**Respiratory or skin sensitization:** No additional information.**Carcinogenicity:** No additional information.**Germ cell mutagenicity:** No additional information.**Reproductive Toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:**

No additional information.

**SECTION 12: Ecological information****Ecotoxicity:** No additional information.**Persistence and degradability:**

Should not be released into the environment.

**Bioaccumulative potential:** No additional information.**Mobility in soil:**

-0.2.

**Other adverse effects:** No additional information.**SECTION 13: Disposal considerations****Waste disposal recommendations:**

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Offer surplus and non-recyclable solutions to a licensed disposal company. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Keep in suitable closed containers for disposal. Product or containers must not be disposed together with household garbage. Consult federal, state, provincial, and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product. Contact a licensed professional waste disposal service to dispose of this material.

**SECTION 14: Transport information****US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA

Not Regulated

**Limited Quantity Exception:**

None

**Bulk:****RQ (if applicable):** None**Proper shipping Name:** Not Regulated.**Hazard Class:** None**Packing Group:** Not Regulated.**Marine Pollutant (if applicable):** No**Comments:** None**Non Bulk:****RQ (if applicable):** None**Proper shipping Name:** Not Regulated.**Hazard Class:** None**Packing Group:** Not Regulated.**Marine Pollutant (if applicable):** No**Comments:** None**SECTION 15: Regulatory information****United States (USA)****SARA Section 311/312 (Specific toxic chemical listings):**

None of the ingredients are listed.

**SARA Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

**RCRA (hazardous waste code):**

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act) :**

10101-41-4 This chemical is not listed on the TSCA because it is a hydrate.: not listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

None of the ingredients are listed.

**Proposition 65 (California):****Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

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None of the ingredients are listed.

**Canada****Canadian Domestic Substances List (DSL) :**

10101-41-4 This chemical is not listed on Canada DSL.: not listed.

**SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA:** 0-0-0**HMIS:** 0-0-0**GHS Full Text Phrases:** None**Abbreviations and Acronyms:**

IMDG	International Maritime Code for Dangerous Goods.
PNEC.	Predicted No-Effect Concentration (REACH).
CFR	Code of Federal Regulations (USA)
SARA	Superfund Amendments and Reauthorization Act (USA).
RCRA.	Resource Conservation and Recovery Act (USA).
TSCA.	Toxic Substances Control Act (USA).
NPRI	National Pollutant Release Inventory (Canada).
DOT	US Department of Transportation.
IATA	International Air Transport Association.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service (division of the American Chemical Society).
NFPA	National Fire Protection Association (USA).
HMIS	Hazardous Materials Identification System (USA).
WHMIS	Workplace Hazardous Materials Information System (Canada).
DNEL	Derived No-Effect Level (REACH).