

# Safety Data Sheet

**AQUAPAC**

Water Treatment & Specialty Chemicals

## Hazardous Chemical, NON-Dangerous Goods

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **GYPSUM**

#### Synonyms

Agricultural Gypsum; Calcium Sulphate Dihydrate; SULFURIC ACID, CALCIUM SALT, DIHYDRATE

#### Product Code

**Recommended use:** Agriculture, Portland Cement rock, industrial plaster, joint system and wall board products.

**Supplier:** Aquapac Pty Ltd  
**ABN:** 36 114 118 311  
**Street Address:** 88 Lee Holm Road  
St Marys NSW 2760  
**Telephone:** 02 9673 1192  
**Facsimile:** 02 9673 1193

**Emergency Telephone number:** 1800 HELP

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.



#### Signal Word

Warning

#### Hazard Classifications

Acute Toxicity - Oral - Category 4  
Serious Eye Damage/Irritation - Category 2B

#### Hazard Statement

H302 Harmful if swallowed.

#### Prevention Precautionary Statements

P102 Keep out of reach of children.  
P103 Read label before use.  
P264 Wash hands, face and all exposed skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

#### Response Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.

#### Storage Precautionary Statement

Not allocated

#### Disposal Precautionary Statement

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

# Safety Data Sheet

## Poison Schedule:

### DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Quartz (SiO <sub>2</sub> )	14808-60-7	<0.1 %
Sulfuric acid, calcium salt, dihydrate	10101-41-4	100 %
Ingredients determined to be Non-Hazardous		Balance

### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact a physician

**Skin Contact:** Wash with mild soap and water. A commercially available hand lotion may be used to treat dry skin areas. If skin has cracked, take appropriate action to prevent infection and promote healing. If irritation persists, consult a physician.

**Eye contact:** In case of contact, do not rub or scratch your eyes. Flush thoroughly with water for 15 minutes to remove particles. If irritation persists, consult a physician.

**Ingestion:** This product is not intended to be ingested or eaten. No harmful effects expected. No specific recommendations. If gastric disturbance occur, call a physician.

**Notes to physician:** Treat symptomatically. Treat symptomatically based on judgement of doctor and individual reactions of patient. Pre-existing upper respiratory and lung diseases such as, but not limited to bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis. IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1). Respirable Crystalline Silica: IARC: Group 1 carcinogen, NTP: Known Human carcinogen. The weight percentage of silica represents total quartz and not the respirable fraction. Testing for dust has not detected respirable crystalline silica. Food and Drug Administration [CFR Title 21, v.3, sec 184.1230] - Calcium Sulfate is Generally Recognized as safe (GRAS). CHRONIC EFFECTS / CARCINOGENICITY: Crystalline silica: Testing of dust from Ausimin Agricultural Gypsum has not detected respirable crystalline silica. Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration. In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs

### 5. FIRE FIGHTING MEASURES

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** If material is involved in a fire use water fog (or if unavailable fine water spray),

# Safety Data Sheet

alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Non-combustible material.

**Fire fighting further advice:** Not applicable.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

### LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

**Dangerous Goods – Initial Emergency Response Guide No:** Not applicable

## 7. HANDLING AND STORAGE

**Handling:** Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of dust.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for spills.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits:**

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Quartz (respirable dust)	-	0.1	-	-	-
Silica Crystalline - Quartz (respirable dust)	-	0.1	-	-	-

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous

# Safety Data Sheet

Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Engineering Measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask.

**Personal Protection Equipment:** SAFETY SHOES, OVERALLS, GLOVES, CHEMICAL GOGGLES, DUST MASK.

Wear safety shoes, overalls, gloves, chemical goggles, dust mask. Available information suggests that gloves made from polyvinyl chloride (PVC) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Material Family:** Calcium Compound  
**Base Units:** Kilogram  
**Form:** Solid  
**Colour:** Light grey to white  
**Odour:** Low to No Odour

**Solubility:** ~~0.23%~~ 0.23% @ 20C  
**Solubility in water:** 0.23% @ 20C  
**Specific Gravity (20 °C):** 2.3  
**Density:** No Data Available  
**Relative Vapour Density (air=1):** No Data Available  
**Vapour Pressure (20 °C):** No Data Available  
**Flash Point (°C):** No Data Available  
**Flammability Limits (%):** No Data Available  
**Autoignition Temperature (°C):** No Data Available  
**Melting Point/Range (°C):** 1450C  
**Pour Point/Range (°C):** No Data Available  
**Boiling Point/Range (°C):** No Data Available  
**Decomposition Point (°C):** No Data Available  
**Sublimation Point (°C):** No Data Available  
**Dropping Point (°C):** No Data Available  
**pH:** 6.0-8.0  
**Viscosity:** No Data Available  
**Surface Tension:** No Data Available  
**Evaporation Rate (n-Butyl acetate=1):** No Data Available  
**Partition Coefficient:** No Data Available  
**Total VOC (g/Litre):** ZERO  
**Odour Threshold:** No Data Available  
**Explosive properties:** No Data Available  
**Oxidising properties:** No Data Available  
**% Volatile by Volume:** No Data Available  
**Molecular Formula:** CaSO4.2H2O

(Typical values only - consult specification sheet)  
N Av = Not available, N App = Not applicable

# Safety Data Sheet

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Product is stable under normal conditions of use, storage and temperature.

**Conditions to avoid:** Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Exposure to moisture.

**Incompatible materials:** Acids. Phosphorus. Diazomethane. Aluminum (at high temperatures).

**Hazardous decomposition products:** May include and are not limited to: calcium oxide and sulfur dioxide

**Hazardous reactions:** Hazardous polymerisation will not occur

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Dust exposures generated during the handling of the product may irritate eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. Testing of dust from Ausimin Agricultural Gypsum has not detected respirable crystalline silica. Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer

**Skin contact:** Dust and glass fibers may produce itching, rash, and redness. Handling can cause dry skin.

**Ingestion:** Harmful if swallowed. If ingested may cause temporary irritation to the gastrointestinal tract, especially the stomach. No known effects

**Eye contact:** Causes eye irritation. Dust in the eyes will cause irritation. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5 mg/L

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

**Corrosion/Irritancy:** Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as non-hazardous.

### Chronic Toxicity

# Safety Data Sheet



**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** Avoid contaminating waterways, drains and sewers. A large discharge directly into waterways would not be expected to kill aquatic life

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients):  $>100$  mg/L, where the substance is not rapidly degradable and/or  $BCF < 500$  and/or  $\log K_{ow} < 4$ .

**Ecotoxicity:** No information available.

**Persistence and degradability:** The product is partially biodegradable. No information available on persistence/degradability for this product.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**  
Montreal Protocol (Ozone depleting substances)

# Safety Data Sheet



The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

## 16. OTHER INFORMATION

Reason for issue: Format change

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.