

PRODUCT NAME: RICHGRO GYPSUM CLAY BREAKER

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Richgro Gypsum Clay Breaker

Other names: Gypsum, Calcium Sulphate Dihydrate.

Recommended use: As fertiliser, soil conditioner, clay breaker in Agriculture and Horticulture.

Company name: Richgro Garden Products

Address: 203 Acourt Road, Jandakot

State: WA

Postcode: 6164

Telephone number: 08 6258 7100

Emergency Telephone No: 1800 455 132

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification, including a statement of overall hazardous nature

HAZARDOUS SUBSTANCE.

Not classified as Hazardous according to Worksafe Australia criteria.

Safety Phrases

S22

Do not breathe dust.

DANGEROUS GOODS.

Not classified as Dangerous Goods according to the ADG Code (7th Edition).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity of ingredients	Proportion of ingredients	CAS Number for ingredients
Calcium Sulphate Dihydrate CaSO ₄ . 2H ₂ O	>95 %	7778-18-9
Calcite (Ca (CO ₃))	<3 %	1317-65-3
Quartz	<2 %	14808-60-7

PRODUCT NAME: RICHGRO GYPSUM CLAY BREAKER

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES FOR DEALING WITH THIS PRODUCT AND EXPOSURE TO IT

1. Swallowed

Wash out mouth with water immediately and give water to drink.
Do not induce vomiting. If symptoms persist seek medical attention.

2. Eyes

Irrigate immediately with plenty of water for at least 15 minutes while holding eyelids open.
If symptoms develop and persist seek medical attention.

3. Skin

Wash affected skin with plenty of soap and water. If irritation develops and persists seek medical attention.

4. Inhalation

Remove from exposure to fresh air immediately and if not breathing apply artificial respiration and oxygen if needed. Seek medical attention if discomfort persists.

ADVICE TO DOCTOR.

Treat symptomatically.

Poison Information Centre in each state's capital city can provide additional assistance
(Phone: 13 11 26)

SECTION 5: FIRE FIGHTING MEASURES

Product flammability

Non-flammable.

Suitable extinguishing media

Use extinguishing media suitable for surrounding fire conditions.

Special Protective Precautions and Equipment for Fire Fighters

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and all necessary protective fire fighting clothing.

Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

Water spray may be used to cool down heat-exposed containers.

Hazard from combustion products

Non-combustible solid.

Under fire conditions toxic and/or irritating fumes and gases may be generated by thermal decomposition or combustion, including Carbon Monoxide and Carbon Dioxide.

PRODUCT NAME: RICHGRO GYPSUM CLAY BREAKER

Hazchem Code

Not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear full protective clothing and personal protection. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so.

Methods and Materials for containment and clean up

Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container for subsequent recycling or disposal in accordance with the applicable local and national regulations. Do not let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management Authority.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Use only in well ventilated area. Ensure an eye bath is available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Avoid inhalation of dust, contact with eyes, skin and clothing. Remove contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated area away from direct sunlight and moisture in original containers. Protect containers/bags against physical damage. Avoid dust generation and accumulation. Store away from bases, water and other incompatible materials. Material is stable under normal conditions of storage and use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards

No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC).

However, the exposure standard for dust not otherwise specified is 10 mg/m³ (for inspirable dust) and 3mg/m³ (for respirable dust).

	STEL (mg/m ³)	STEL (mg/kg)	TWA (mg/m ³)	TWA (mg/kg)
Quartz			0.1	

PRODUCT NAME: RICHGRO GYPSUM CLAY BREAKER

Engineering controls

Ensure adequate local and/or general exhaust ventilation to keep airborne concentrations below the permissible exposure limit.

Personal protective equipment

Respirator: Wear an approved respirator where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716).

Eyes: Use safety glasses with side shields or chemical goggles (AS1336/1337).

Hands: Wear protective gloves (AS2161).

Clothing: Long-sleeved protective clothing and safety footwear (AS3765/2210).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour, physical form, shape):

Off-white powder.

Formula: $\text{CaSO}_4 \cdot 2 \text{H}_2\text{O}$

Odour: Odourless

pH of 10% solution: Not available

Vapour pressure: Not applicable

Vapour density: Not applicable

Boiling point/range: Not applicable

Melting point: Not available

Evaporation rate: Not applicable

Solubility in water: Not soluble

Specific gravity: 2.30 – 2.35

Percent Volatiles: Not applicable

Flammability: Not flammable

Flash point and method of detecting flash point: Not applicable

Ignition temperature: Not applicable

PRODUCT NAME: RICHGRO GYPSUM CLAY BREAKER

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

Product is stable under normal conditions of use, storage and temperature.

Conditions to avoid

Avoid generating and accumulating dust and wet conditions.

Incompatible Materials

Not available.

Reactivity

Hazardous polymerization has not been reported.

Hazardous Decomposition products

During a fire, irritating and/or toxic gases may be generated by thermal decomposition or combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS – ACUTE

Inhalation:

Inhalation of this product dust may irritate, inflame or sensitise the nose, throat and lungs, and aggravate pre-existing conditions such as asthma and bronchitis.

Skin:

Contact with skin may cause irritation and dryness.

Eye:

May cause mechanical irritation to eyes.

Swallowed:

If swallowed may cause gastrointestinal discomfort, including nausea and vomiting.

HEALTH EFFECTS – CHRONIC

Repeated, prolonged or concentrated inhalation may cause delayed lung injury. Breathing of dust may cause shortness of breath, and aggravate asthma, and inflammatory or fibrotic pulmonary disease. Prolonged or repeated contact with skin, in the absence of proper hygiene, may cause dryness and dermatitis.

TOXICITY DATA - Carcinogenicity:

This product contains a small proportion of respirable crystalline silica as quartz (<1%). Crystalline silica has been classified by the **International Agency for Research on Cancer (IARC)** as carcinogenic to humans by inhalation (Group 1). Prolonged or repeated inhalation of dust from this product can cause silicosis and other lung diseases. Silicosis is a disease which causes a scarring of the lungs, progressively reducing lung function and may lead to death.

PRODUCT NAME: RICHGRO GYPSUM CLAY BREAKER

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No data available.

Persistence and Degradability

No information available.

Mobility

No information available.

Bioaccumulative Potential

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods and containers

Prevent discharge to water, soil and air and dispose in accordance with all Local, State and Federal environmental regulations. Carefully sweep up and shovel into suitable labeled containers.

Legislation

All empty packaging should be disposed of in accordance with local, state and Federal Regulations or recycled/reconditioned at an approved facility.

SECTION 14: TRANSPORT INFORMATION

Land Transport (Australia)

Regulation Name: ADG

UN Number

Not applicable.

UN Proper shipping name

Not applicable.

Class and subsidiary risk

Not applicable

Packing group

Not applicable.

Precaution for User

Not classified as Hazardous according to Worksafe Australia criteria.

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Hazchem code

Not applicable.

PRODUCT NAME: RICHGRO GYPSUM CLAY BREAKER

SECTION 15: REGULATORY INFORMATION

Australian regulatory information

Poisons Schedule

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

SECTION 16: OTHER INFORMATION

Key / legend to abbreviations and acronyms used in the MSDS

NOHSC	National Occupational Health and Safety Commission
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons
AICS	Australian Inventory of Chemical Substances
ACGIH	American Conference of Government Industrial Hygienists
CAS	Chemical Abstracts Service (Registry Number)
ES-TWA	Exposure Standard – Time weighted average
ES-STEL	Exposure Standard – Short term exposure level
ES-Peak	Exposure Standard – Peak level
LD Lo	The lowest dose in an animal study in which lethality occurred
LD50	Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation
TC Lo	Toxic concentration low. It is the lowest concentration of a substance in air to which humans (or animals) have been exposed for any given period of time that has produced any toxic effect or produced a tumorigenic or reproductive effect one or more members of the group of subjects
t/m ³	Tonnes per cubic metre
mg/m ³	Milligrams per cubic metre
mg/kg	Milligrams per kilogram
pH	Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

PRODUCT NAME: RICHGRO GYPSUM CLAY BREAKER

IMPORTANT NOTES

1. To the best of our knowledge this document complies with the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011 (2003)].
2. This material safety data sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this material safety data sheet and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.
3. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Safety and Emergency Services Department, Richgro Garden Products on (08) 9455 1323 (Australia), +61 8 9455 1323 (Overseas).
4. Our responsibility for products sold, is subject to our terms and conditions, a copy of which is sent to our customers, and is also available on request.
5. Richgro Garden Products reserves the right to make change to material safety data sheets without notice.