Safety Data Sheet

1. IDENTIFICATION

Product name: **Meningie Gypsum [Product codes 9327 457 000010 (25 kg pack) & 9327 457 000003 (10 kg pack)]**

Recommended use:	**Soil conditioner, ingredient in mushroom compost, industrial filler material, flocculant, absorbent and for use in land fill.**
Supplier:	MENINGIE GYPSUM PTY LTD
Street address:	Princes Highway Meningie, SA, 5264
Telephone:	+61 8 8575 1574
Emergency phone number:	+61 8 8575 1574

2. HAZARD(S) IDENTIFICATION

Not classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals, 7th Revised Edition (GHS) and of the Australian Work Health and Safety Legislation.

Signal Word

None

Hazard Classifications

None

Hazard Statements

None

Prevention Precautionary Statements

None

Response Precautionary Statements

None

Storage Precautionary Statement

None

Poison Schedule: Not Applicable

DANGEROUS GOODS 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 AND INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No.	PROPORTION (% w/w)
Calcium sulphate dihydrate (non-hazardous active ingredient)	10101-41-4	> 80%
Quartz (respirable form)	14808–60–7	< 0.05 %
Other minerals classified as non-hazardous	Not applic.	Balance to 100%

4. FIRST AID MEASURES

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

Inhalation: In the event of significant inhalation of the dust of the product, remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Keep at rest until fully recovered. Seek medical advice if any adverse symptoms develop.

Skin Contact: If swelling, redness, blistering or irritation occur seek medical assistance. For gross contamination by dust of the product, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water. Seek medical assistance if any symptoms develop.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for at least 15 minutes and seek medical assistance if eye damage is apparent or if eye irritation persists.

Ingestion: Rinse mouth with water if ingestion of the product has occurred. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice if adverse symptoms develop.

PPE for First Aiders: Wear gloves and safety glasses and (if extensive dust of the product is at the location of the patient) a respirator. If inhalation risk exists then wear dust mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Wash clothing and other protective equipment that's contaminated by dust of the product before storing or re-using.

Notes to physician: Treat symptomatically.

5. FIREFIGHTING MEASURES

Hazchem Code: Not applicable

Suitable extinguishing media: The product is not considered to be combustible. If the product is involved in a fire use extinguishing media appropriate to the surrounding fire.

Specific hazards: None.

Fire fighting further advice: None.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear personal protective equipment to prevent skin and eye contamination. Avoid inhalation of dust of the product. Clean up in a way that minimises the mobilisation of any dust. Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust of the product. If there is a significant quantity of the product to be cleared from the site, clean up in a way that minimises the generation of dust (for example by the use of fine water spray) then seal in properly labelled containers or drums for disposal. If the product is not contaminated with any hazardous substances then consideration should be given to using it for its original purpose.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

7. HANDLING AND STORAGE

Handling: Avoid eye contact with dust of the product and repeated or prolonged skin contact. Avoid inhalation of dust of the product.

Storage: No special storage conditions apply.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National occupational exposure limits applicable to this product:

Exposure limit:	TWA		STEL		NOTICES
Substance	ppm	mg/m³	ppm	mg/m³	
Quartz (respirable dust)	n/a	0.05 (respirable dust)	n/a	-	Carc. 1A
Nuisance dusts (inhalable)	n/a	10	n/a	-	None

n/a = not applicable (the term 'parts per million' can only apply to gases and vapours of a substance, not dust).

As published by Safe Work Australia.

Under "Notices" in the table above, the following notes apply from the Safework Australia document "Workplace Exposure Standards for Airborne Contaminants (December 2019):

Carc. 1A: Respirable crystalline silica is classified as a Category 1A carcinogen.

According to the document "Guidance on the Interpretation of Workplace Exposure Standards for Airborne Contaminants" (Safe Work Australia, April 2013), "the respirable fraction is composed of the very fine dust which is able to reach the lower bronchioles and alveolar regions of the lung". Respirable particles are characterised by having an equivalent aerodynamic diameter (EAD) in the range of 0 to 10 microns, with a high proportion having an EAD of less than 5 microns.

According to the document "Guidance on the Interpretation of Workplace Exposure Standards for Airborne Contaminants" (Safe Work Australia, April 2013), "Inhalable dust refers to the particle size entering the mouth and nose during normal breathing. These particles may be deposited in the respiratory tract.

Measurements of the concentration of respirable crystalline silica concentration in the product indicate that it is less than 0.05% by weight. As a result, if air-borne dust is controlled so that it doesn't exceed the above exposure limit for nuisance dust, then the exposure limit for respirable crystalline silica is not likely to be exceeded. However, it would be considered good workplace practice to assume that there may be variations in the composition of the product that result in the respirable crystalline silica concentration in the product occasionally reaching 0.1% by weight. As a result, maintaining the concentration of nuisance dusts to the above limit would be encouraged at all times.

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

Engineering Measures: When dust of the product is generated, ensure that ventilation is adequate to maintain air concentrations below Exposure Limits. If dust of the product is being generated then use with local exhaust ventilation or while wearing an appropriate respirator.

Personal Protection Equipment:

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear gloves and safety glasses and use with adequate ventilation. If inhalation risk exists (for example, when handling the substance in the absence of a dust extraction system and in a way that generates visible dust) wear a respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Gloves that exclude dust are adequate. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating or drinking. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, and drink. When handling the product do not eat, drink or smoke. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of dust of the product, especially if handling the product on a regular basis. Ensure that a source of water is available for washing exposed parts of the body.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Powder
Appearance/Colour:	White
Odour:	None
Solubility:	Sparingly soluble in water
Bulk density (compacted):	Not available
Relative Vapour Density (air=1):	Not available
Vapour Pressure (20°C):	Not available
Flash Point (°C):	Not applicable (product is not combustible)
Flammability Limits (%):	Not applicable
Autoignition Temperature (°C):	Not applicable
Melting Point/Range (°C):	Not available
Boiling Point/Range (°C):	Not available
pH of product as a suspension in water (25°C):	5 to 8
Viscosity:	Not available
Total VOC (g/Litre):	Not available

The values shown are typical values only.

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Generation of excessive dust of the product.

Incompatible materials: None known.

Hazardous decomposition products: None.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health are 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 of Exposure:

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: This material is not classified as a skin irritant.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: Eye contact may result in irritation or mechanical damage to the eyes.

Information on Acute toxicity:

Inhalation: This material has been classified as non-hazardous with respect to acute toxicity by inhalation. Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist or LC50 > 20,000 ppm for gas

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

Ingestion: This material has been classified as non-hazardous with respect to acute toxicity by ingestion. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Corrosion/Irritancy: This material has been classified as non-hazardous with respect to skin corrosion or irritancy.

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

Aspiration hazard: This material has been classified as non-hazardous with respect to aspiration toxicity.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous with respect to specific target organ toxicity.

Chronic Toxicity:

Mutagenicity: This material has been classified as non-hazardous with respect to mutagenicity.

Carcinogenicity: This material may contain respirable quartz (i.e. respirable crystalline silica) at a concentration that would not normally exceed 0.05% by weight. As a result this product does not meet the classification criteria for Carcinogenicity (including via the inhalation route). However, some caution may be necessary to avoid repeated exposure to dust of the product at high concentrations. See Section 8 for information on exposure limits for respirable crystalline silica and nuisance dusts.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous with respect to reproductive toxicity.

Specific target organ toxicity (repeat exposure, lungs): This material may contain respirable quartz (i.e. respirable crystalline silica), but at a concentration that would not normally exceed 0.05% by weight. If regularly exposed to high concentrations of dust of the product, there is a risk of damage to the lungs through prolonged or repeated exposure if inhaled. See Section 8 for information on exposure limits for respirable crystalline silica and nuisance dusts.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways. This substance may impart a high turbidity to natural waterways, with adverse effects on aquatic ecosystems. It may also impart high levels of calcium (increasing the hardness of the water) and of sulphate (which, under persistent anoxic conditions, may lead to the generation of hydrogen sulphide).

Acute aquatic hazard: This material has been classified as non-hazardous with respect to acute aquatic toxicity. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as non hazardous with respect to chronic aquatic toxicity. The material is a naturally occurring mineral comprising highly oxidised forms of iron and some other elements. Although not a rapidly degradable substance it is known to have a very low bioconcentration factor (BCF << 500) and a very low octanol-water coefficient (log K_{ow} << 4).

Ecotoxicity: The product is of natural origin and components of the product are neither persistent in the environment nor toxic to aquatic life (although that does not discount the possible adverse impacts of introducing high levels of turbidity to waterways).

Persistence and degradability: As a naturally occurring mineral, when released to the environment it's likely to remain unaltered and to be dispersed in the unaltered form.

Bioaccumulative potential: Components of the product are known not to have bioaccumulative potential.

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 should be re-used and its container 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)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
International Convention for the Prevention of Pollution from Ships (MARPOL)
Basel Convention (Hazardous Waste)

This material/constituent(s) is covered by the following requirements:

- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. ANY OTHER RELEVANT INFORMATION

Reason for issue: Re-issue of SDS after five years

This Safety Data Sheet has been prepared by CETEC Pty Ltd on behalf of its client.

Safety Data Sheets should be reviewed every five years and more frequently if new information on any of the ingredients emerges. Please ensure that you have a current copy.

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 clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.