

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name MMS GYP FLOUR (GROUND GYPSUM IN FINE GRAIN SIZE)

Synonyms BULK GYPSUM ● GROUND GYPSUM ● NATURAL GYPSUM ● NATURALLY OCCURING GYPSUM

1.2 Uses and uses advised against

Uses ADDITIVE ● INDUSTRIAL APPLICATIONS ● SOIL CONDITIONER ● SOIL TREATMENT

1.3 Details of the supplier of the product

Supplier name MICRONISED MINERAL SOLUTIONS PTY LTD

Address 10 Campion Rd, East Arm, NT, 0828, AUSTRALIA

Telephone (08) 8947 1872; 1800 127 406

Email admin@micronisedminerals.com

Website http://micronisedminerals.com.au/

1.4 Emergency telephone numbers

Emergency (08) 8947 1872

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

2.2 GHS Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

2.3 Other hazards

No information provided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
SILICON DIOXIDE (SILICA, AMORPHOUS)	7631-86-9	231-545-4	<2%
LIMESTONE (CALCIUM CARBONATE)	1317-65-3	215-279-6	<1%
CALCIUM SULPHATE DIHYDRATE	10101-41-4	600-148-1	>95%
IMPURITIES	-	-	Not Available
WATER	7732-18-5	231-791-2	Not Available

Ingredient Notes Respirable crystalline silica may be present in this product as a contaminant.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

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Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Immediate medical attention and special treatment needed

Drinking glycerin, gelatin solutions, or large volumes of water may delay the hardening of this product in the stomach. Surgical relief of obstruction, particularly at the phlorus, may be required.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases (sulphur oxides) when heated to decomposition.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

None allocated.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Moisten with water to prevent a dust hazard and place in sealable containers for disposal.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are tightly sealed, adequately labelled and protected from physical damage.

7.3 Specific end uses

No information provided.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m³	ppm	mg/m³
Calcium carbonate (Limestone, Marble, Whiting)	SWA [AUS]		10		
Calcium sulphate	SWA [Proposed]		1.5		
Calcium sulphate (a)	SWA [AUS]		10		
Fumed silica (respirable dust)	SWA [AUS]		2		

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction

ventilation is recommended.

PPE

Wear dust-proof goggles. Eye / Face Hands Wear PVC or rubber gloves.

When using large quantities or where heavy contamination is likely, wear coveralls. **Body**

Where an inhalation risk exists, wear a Class P1 (Particulate) respirator. Respiratory



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance WHITE TO CREAM COLOURED POWDER

Odour SLIGHT EARTH ODOUR **Flammability** NON FLAMMABLE **NOT RELEVANT** Flash point **Boiling** point **NOT AVAILABLE NOT AVAILABLE Melting point NOT AVAILABLE Evaporation rate**

рΗ 5.5

NOT AVAILABLE Vapour density

Relative density 1.1

SOLUBLE Solubility (water)

Vapour pressure **NOT AVAILABLE NOT RELEVANT Upper explosion limit** Lower explosion limit **NOT RELEVANT NOT AVAILABLE** Partition coefficient Autoignition temperature **NOT AVAILABLE Decomposition temperature NOT AVAILABLE NOT AVAILABLE** Viscosity **NOT AVAILABLE Explosive properties NOT AVAILABLE Oxidising properties Odour threshold NOT AVAILABLE**

10. STABILITY AND REACTIVITY

10.1 Reactivity

Contact with strong acids may lead to the evolution of toxic sulphur oxide vapours. Contact with some metals and alkalis may lead to evolution of toxic fluoro silane vapours.



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10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible with strong oxidising agents, strong acids, alkalis, herbicides and fungicides. Slightly corrosive to copper, carbon steel, aluminium, zinc and ferrous metals on prolonged contact.

10.6 Hazardous decomposition products

May evolve toxic gases (sulphur oxides) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity This product is expected to be of low toxicity. Based on available data, the classification criteria are not met.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
SILICON DIOXIDE (SILICA, AMORPHOUS)	3160 mg/kg (rat)		
LIMESTONE (CALCIUM CARBONATE)	> 5000 mg/kg (rat)		
CALCIUM SULPHATE DIHYDRATE	3000 mg/kg (rat)		

Skin Not classified as a skin irritant. Contact may result in mild irritation, redness and rash.

Eye Not classified as an eye irritant. However, direct contact may result in mild irritation, lacrimation, pain and

redness.

Sensitisation Not classified as causing skin or respiratory sensitisation.

Mutagenicity Not classified as a mutagen.

Carcinogenicity Not classified as a carcinogen. Crystalline silica is classified as carcinogenic to humans (IARC Group 1).

Chronic exposure to crystalline silica may result in lung fibrosis (silicosis). However, due to the low levels

present, chronic health effects are not anticipated with normal use.

Reproductive Not classified as a reproductive toxin.

STOT - single exposure

Inhalation of low concentrations of gypsum dust should not cause significant health effects. Inhalation of large amounts of dust may cause inflammation of the nose and throat leading to nasal secretions. Symptoms of irritation due to inhaling are not throat tightness of cheet, short pain light headedness and paraistent

of irritation due to inhaling are sore throat, tightness of chest, chest pain, light-headedness and persistent

cough with secretion of sputum.

STOT - repeated

exposure

Chronic exposure to gypsum may cause irritation of the mucous membranes and skin irritations that may

lead to dermatitis. Not classified as causing organ damage from repeated exposure.

Aspiration Not classified as causing aspiration.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Not expected to be harmful to aquatic life.

12.2 Persistence and degradability

Gypsum is persistent in the environment due to inert form.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

Low mobility in the soil. Low solubility in water.

12.5 Other adverse effects

The main component/s of this product are not anticipated to cause any adverse effects to plants or animals.

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal Reuse where possible. No special precautions are normally required when handling this product. Gypsum is

a soil conditioner, flocculant and fertiliser and may hence be distributed on agricultural land. If no agricultural land is available, collect in sealed containers and dispose in accordance with the requirements of the

Department of Environment.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE. IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

Not a Marine Pollutant.

14.6 Special precautions for user

Hazchem code None allocated.

15. REGULATORY INFORMATION

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

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

16. OTHER INFORMATION

Additional information

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.



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HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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