



SAFETY DATA SHEET

Section 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	Flinders Agriculture Dolomite
Other Means of Identification:	Flinders Agriculture Coarse Dolomite, Flinders Agriculture Medium Dolomite, Flinders Agriculture Fine Dolomite, Calcium magnesium carbonate
Recommended Use:	Fertiliser, soil conditioner, compost amendment, acid sulphate soil neutraliser, absorbent
Supplier:	Jackal Renewables Pty Ltd (trading as Flinders Agriculture) c/- McDuff Accountants 8/35 Ethel Street Yeerongpilly QLD 4105 AUSTRALIA
Telephone:	1300 895 988
Emergency Phone Number:	13 11 26 (Poisons Information Centre)

Section 2 HAZARDS IDENTIFICATION

THIS PRODUCT IS HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA
This product is not classified as Dangerous Goods by the criteria of the ADG Code, IMDG, or IATA

GHS Classification: Carcinogenicity (Category 1A)
Specific target organ toxicity – repeated exposure, Inhalation (Category 2)

GHS Label Elements

Pictogram:



GHS08: Health hazard

Signal Words:

Danger

Hazard Statements:

H320: Causes eye irritation.
H350i: May cause cancer by inhalation.
H373: Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation).

Precautionary Statements:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust/spray.
P264: Wash hands thoroughly after handling.
P281: Use personal protective equipment as required.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P314: Get medical advice/attention if you feel unwell.
P337+P313: If eye irritation persists get medical advice/attention.
P501: Dispose of contents/container to an approved waste disposal plant in accordance with local Regulations.

Other Hazards:

NONE

Section 3 COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS	Exposure Limits	Proportion
Dolomite	16389-88-1	TWA: 10 mg/m ³	0 to 95 %
Attapulgate	12174-11-7	TWA: 1 fibre/cm ³	1 to 4 %
Quartz	14808-60-7	TWA: 0.05 mg/m ³	<2 %

Classification H350i Carcinogen Cat. 1A / H373 Specific Target Organ Toxicity (lungs) Cat. 2

Section 4 FIRST AID MEASURES

Description of First Aid Measures

General: Consult a physician. Show this safety data sheet to the doctor in attendance.

If Inhaled: Remove from source of mist, fumes, or dust.
Lay patient down quietly and keep warm and rested.
Remove any prostheses and loosen any clothing which may affect breathing.
If breathing has stopped or is laboured, give assisted respiration.
Seek medical advice.

In Case of

Skin Contact: Wash off with soap and plenty of water.

In Case of Hold eyes open and rinse thoroughly with plenty of water for at least 15 minutes.

Eye Contact: Consult a doctor immediately.
Removal of contact lenses should only be undertaken by skilled personnel if safe to do so.

If Swallowed: Never give anything by mouth to an unconscious person.
If swallowed, immediately rinse mouth with water (provided person is conscious).
DO NOT INDUCE VOMITING.
If vomiting occurs, place victim's face downwards with head lower than hips.

Most Important Symptoms and Effects, Both Acute and Delayed

Eye irritation.

Coughing, breathing difficulty.

The most important known symptoms and effects of the ingredients are described in Section 11.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available.

Advice to Doctor: Treat symptomatically.

Section 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media suitable for surrounding areas. There is no restriction on the type of extinguishing media which may be used.

Special Hazards Arising from the Mixture

May evolve toxic gasses such as CO₂ when strongly heated.

Advice for Fire Fighters

Use extinguishing media to control the fire as appropriate to surrounding environment and materials, and cool the adjacent area. Avoid spraying water onto liquid pools: may be slippery when spilt.

Hazchem Code

None.

Further Information

The product itself does not burn.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wet area to prevent dust generation. Avoid dust formation. Avoid breathing dusts. Ensure adequate ventilation. For personal protection, see Section 8.

Environmental Precautions

Dam spills and cover drains. Do not allow product to enter drains, sewers, or local waterways.

Methods and Materials for Containment and Cleaning Up

Wet area to prevent dust generation. Avoid dry sweeping. If vacuuming, it is recommended that a high efficiency particulate filter is used. Sweep, shovel, or vacuum up without creating dust and dispose of to waste disposal site approved of by Local Authority laws. For disposal, see Section 13.

Section 7 HANDLING AND STORAGE

Precautions for Safe Handling

Product is considered stable. Avoid formation of dusts and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes.

Conditions for Safe Storage, Including any Incompatibilities

Store in a cool, dry, and well-ventilated place. Do not store near dust-generating or high temperature environments. Store away from foodstuffs.

Specific End Uses

Apart from the uses mentioned in Section 1, no other specific uses are noted.

Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters – Occupational Exposure Limits

Component	Value	Control Parameters	Notes
Dolomite	NES TWA	10 mg/m ³	Read across from calcium and magnesium carbonates. This value is for inhalable dust containing no asbestos and <1% crystalline silica. Australia Workplace Exposure Standard for Airborne Contaminants 2020.
Attapulгите	TWA	1 fibre/cm ³	Institut de recherche Robert-Sauvé en santé et en Sécurité du travail 2022.
Quartz	NES TWA	0.05 mg/m ³	Australia Workplace Exposure Standard for Airborne Contaminants 2020.

Exposure Controls - Appropriate Engineering Controls

Avoid inhalation and use in well ventilated areas.

Where inhalation risk exists, use appropriate respiratory protection or provide adequate ventilation.

Observe occupational exposure limits and minimize the risk of dust inhalation.

Maintain general good industrial hygiene and safe work practice.

Exposure Controls - Personal Protective Equipment

Eye/Face Protection:

Dust resistant goggles where there is risk of eye contact.

Safety glasses approved under appropriate Standards such as AS/NZS 1337 - Eye Protectors for Industrial Applications.

Eye wash unit.

Contact lenses may pose a special hazard, as they may entrap and concentrate irritants.

Skin Protection:

No specific hand protection noted, but gloves are advisable for prolonged exposure.

Body Protection: Suitable protective work wear, e.g. long-sleeved safety clothes or coveralls and safety boots.

Respiratory Protection: No specific recommendation made, but respiratory protection must be used if levels exceed the occupational exposure limits. Where protection from nuisance levels of dusts or aerosols is required, use type P2 dust/mist/fume masks approved under appropriate Standards such as AS/NZS 1716 - Respiratory Protective Devices.



Biological Limits No biological limit values have been entered for this product.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White fine to lumpy clay-like material.
Odour	Odourless
Odour Threshold	No data
pH	9 to 11 (1:5 solids in aqueous suspension)
Melting / Freezing Point	Not applicable
Initial Boiling Point	Not applicable
Boiling Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability	Not applicable
Upper / Lower Flammability Limits	Not applicable
Explosive Limits	No data
Vapour Pressure	No data
Vapour Density	No data
Relative Density	2.86 (water = 1)
Bulk Density	1.4 to 1.6 g/cm ³
Water Solubility	Practically insoluble at 20 °C
Partition Coefficient: <i>n</i> -Octanol:Water	Not applicable
Autoignition Temperature	Not applicable
Decomposition Temperature	>650 °C
Viscosity	Not applicable

Section 10 CHEMICAL STABILITY / REACTIVITY

Reactivity	Product will not burn, but has potential to produce toxic CO ₂ gas when strongly heated in air.
Chemical Stability	Product is considered stable under normal conditions.
Possibility of Hazardous Reactions	May react with strong acids to generate toxic CO ₂ gas.
Conditions to Avoid	Excessive dust generation during storage and handling. Prolonged high temperature, open flames.
Incompatible Materials	Strong acids.
Hazardous Decomposition Products	In the event of intense fire, may produce toxic CO ₂ gas when strongly heated.

Section 11 TOXICOLOGICAL INFORMATION

Toxicological information of ingredients (listed in Section 3):

Acute Toxicity	No data.
Skin Corrosion / Irritation	May cause irritation on prolonged exposure.
Serious Eye Damage / Eye Irritation	Dust may cause irritation.
Respiratory or Skin Sensitization	No data.
Germ Cell Mutagenicity	No evidence of mutagenic effects.
Carcinogenicity	Limited evidence of human carcinogenicity. IARC Group 1 – Carcinogenic to humans.
Reproductive Toxicity	No data.
Specific Target Organ Toxicity – Single Exposure	No data.
Specific Target Organ Toxicity – Repeated Exposure	Inhalation – may cause damage to organs (lungs) through prolonged or repeated exposure.
Aspiration Hazard	No data.

Additional Information

Prolonged inhalation of crystalline silica (Quartz) may result in silicosis. Advanced silicosis may result in death due to destruction of lung tissue or cardiac failure.

Attapulgit (also known as Palygorskite) may cause damage to organs (lungs) through prolonged or repeated exposure through inhalation. Carcinogenicity varies according to the fibre length of the mineral:

Attapulgit fibre (source: SHW2018)	Health hazard & carcinogenicity	
	WHO	IARC
Long fibres, >5 µm	High for long fibres	Group 2B
Short fibres, <5 µm	Low for short fibres	Group 3

Information on likely routes of exposure

May be harmful if inhaled.

May cause skin irritation.

May cause eye irritation.

Early onset symptoms related to exposure

Refer to Section 4

Exposure levels and health effects

Refer to Section 4

Section 12 ECOLOGICAL INFORMATION

Ecological information of ingredients (listed in Section 3):

Toxicity	No data on dolomite or the mixture of minerals. May affect turbidity of water if discharged into lakes or streams.
Read-across from calcium carbonate: Toxicity to algae static test ErC50 - <i>Desmodesmus subspicatus</i> (green algae) – 14 mg/l - 72 h (OECD Test Guideline 201).	
Persistence and Degradability	No data. Not relevant, as this material is a naturally occurring, abundant innocuous mineral.
Bioaccumulative Potential	No data.
Mobility in Soil	No data. Not relevant, as this material is a naturally occurring, abundant innocuous mineral.
Results of PBT and vPvB Assessment	No data.
Other Adverse Effects	No data.

Section 13 DISPOSAL CONSIDERATIONS

Recycle where possible.

When unused, no special precautions are required for the disposal of this material.

Offer surplus or unusable or waste material to a licenced Landfill, Composter, or Waste Management Company for disposal.

For the safety of persons conducting disposal or recycling activities, follow personal protection requirements as specified in Section 8. Ensure that product and containers are covered or kept wet to prevent dust generation.

Section 14 TRANSPORT INFORMATION

	Land (ADG7.7)	Sea (IMDG/IMO)	Air (IATA/ICAO)
UN Number:	NONE	NONE	NONE
UN Proper Shipping Name:	NONE	NONE	NONE
Transport Hazard Classes:	NONE	NONE	NONE
Packaging Group:	NONE	NONE	NONE

Special Precautions for User: Avoid generating and breathing dust.

Hazchem Code: NONE

Basel Code: Not applicable

Section 15 REGULATORY INFORMATION

Classified as Hazardous according to Safe Work Australia (formerly National Occupational Health and Safety Commission (NOHSC)).

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP).

Not classified as Dangerous Goods under the ADG7.7.

AICS listing:

Dolomite	Attapulgit	Quartz
Yes (as Dolomite)	Yes (as Palygorskite)	Yes (as crystalline silica)

Section 16 OTHER INFORMATION

Inhalation exposure to high levels of dust may be regulated under the Hazardous Substances Regulations (State and Territory), requiring exposure assessment, and control. Persons who have potential for exposure above the NES TWA may be required to have periodic health surveillance including chest X-ray (see relevant Regulations and Safe Work Australia health monitoring Guide).

Abbreviations:

AICS	Australian Inventory of Chemical Substances
ADG7.7	Australian Dangerous Goods Code, Edition 7.7
ErC50	50 percent reduction in growth rate
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association Code
IMDG	International Maritime Dangerous Goods Code
IMO	International Maritime Organization
NES	National Exposure Standard (Safe Work Australia - Workplace Exposure Standards for Airborne Contaminants) 16 December 019
NOHSC	National Occupational Health and Safety Commission
OECD	Organisation for Economic Co-operation and Development
SHW2018	S-H Park (2018), <i>Safety and Health at Work</i> , vol. 9, pp. 360-364.
SUSMP	Standard for the Uniform Scheduling of Drugs and Poisons
TWA	Time weighted average
WHO	World Health Organisation

Australian and New Zealand Standards:

AS/NZS 1337 - Eye Protectors for Industrial Applications

AS/NZS 1716 - Respiratory Protective Devices

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This document supersedes and replaces all previous Versions and revisions of the SDS.

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Poisons Information Centre: 13 11 26

In case of Emergency, phone: 000

END OF SAFETY DATA SHEET