DIATOMACEOUS

Diatomaceous Earth Online PO Box 600, Hervey Bay 4655 Australia Phone: +61 (0) 407 648 916 ABN: 83 251 227 940

MATERIAL SAFETY DATA SHEET INFORMATION

Issue: December 2022

PRODUCT:	Diatomaceous Earth				UN No.: Dangerous Goods Class	NR NB
Other Names:	Amorpho Diatomit	ous Silica, Silicon Di e	oxide,		Subsidiary Risk: Packing Group:	None
					Hazchem Code:	NR
Uses:	Fertiliser, Soil Amendment, Livesto and poultry farming, use in buildir materials.				Poisons Schedule:	None
Hazardous Nature	azardous Nature: This product is not classif Compensation Council cr			a	rding to Australian Safety and	
Exposure Standar	ds:	TWA: None spec	ified: conside	r 10 mg/ ³ ; STEL m	None specified: consider 10	mg/m3; Peak
					none. Refer to Section 8 for	
Physical Character	ristics (Typica	al)			Sectio	on 9 of the MSDS
Appearance			White powder, fine granules			
Boiling Point/Rang	ge (°C):		Not applicable			
Flash Point (°C):			None			
Specific Gravity/D	ensity (g/ml (@ 15°C):	0.65			
pH:			Neutral – 7 to 9 ph.0			
Chemical Stability:			Inert			
Reactivity:			None			
Product Ingredien	ts				Sectio	on 3 of the MSDS
Ingredient			CAS Numbe	<u>er</u>	Proportion	
Diatomaceous Earth				61790-53-	2	100
Amorphous Silicon Dioxide			7631-86	-9	60 - 8	
Risk Phrases				Sectio	on 2 of the MSDS	
Not Hazardous: in	tentionally le	ft blank				

DEFINITIONS	
Dangerous Goods	Products that are regulated for transport by Road and Rail under the national guide are Dangerous Goods. Products can be classed as Dangerous Goods if they have a flash point below 60.5°C, a pH below 3 or above 11, are explosives or toxic. These goods will be allocated a UN No., Packing Group, Hazchem Code, and possibly a subsidiary risk.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by nature, rather than by misuse. These include mutagens, teratogens, carcinogens, products that are toxic (but not sufficiently toxic to be classed as Dangerous Goods or carry a subsidiary risk), and products that pose environmental risks.
Poisons	Poisons are products that are regulated by the dose or exposure, often having physical and chemical effects at certain concentrations particular to the nature of the product. For example, in small doses, some products are harmless, but with increased concentration or exposure these products can be extremely harmful. The classification indicates First Aid, etc.

SUMMARY INFORMATION ONLY

1. IDENTIFICATION

Product Name:	Diatomaceous Earth
Other names:	Natural amorphous silica, diatomite
Chemical family:	Silicates
Molecular formula:	SiO2
Recommended use:	Fertiliser, soil amendment, livestock and poultry farming, insect control, use in light- weight building materials
Supplier:	Diatomaceous Earth Online
ABN:	83 251 227 940
Address:	PO Box 600, Hervey Bay 4655
Telephone:	+61 (0)407 648 916
Emergency Phone:	+61 (0)407 648 916

2. HAZARDS IDENTIFICATION

Hazard Classification

This product is not classified as hazardous according to Australian Safety and Compensation Council criteria. Tested by the Queensland Government (Australia), this product contains less than 1% crystalline silica (LOR <1%).

Hazard Category

This section is not applicable.

Risk Phrases

Not hazardous. This section is not applicable.

Safety Phrases

Not hazardous. This section is not applicable.

3.

Dangerous goods classification

NR

Poisons Schedule

None. Not applicable.

COMPOSITION: INFORMATION ON INGREDIENTS

Chemical Ingredient	CAS Number	Proportion (% v/v)
Diatomaceous Earth	61790-53-2	100
Amorphous Silica	7631-86-9	60 - 80

FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

4.

Ingestion

No known hazard

Eye Contact

Flush eyes with large amounts of water until irritation subsides if discomfort persists seek medical attention

Skin Contact

No known hazard but may cause skin irritation, flush with large amounts of water

Inhalation

Remove to fresh air. If breathing is difficult give oxygen and seek medical attention

First Aid Facilities

Access to water

Medical Attention

Treat according to symptoms

FIRE FIGHTING METHODS 5. Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways. Suitable Extinguishing Media Waterspray, dry chemical or foam Hazards from combustion products None: will not burn Precautions for fire fighters and special protective equipment Standard precautions as with all fires **Hazchem Code** NR 6. ACCIDENTAL RELEASE MEASURES **Emergency Procedures** Vacuum Clean or Wet Sweep spillage Methods and materials for containment **Major Land Spill** Waste should be disposed of in closed containers to prevent dust Major Water Spill Shut off the source of the spill if possible and safe to do so Confine the spill if possible Remove the product from the surface by skimming. 7. HANDLING AND STORAGE **Precautions for Safe Handling** This product is a silicate and will not burn. This product can become dusty. **Conditions for Safe Storage** Protect packaging from physical damage, keep dry and check for leaks. **Incompatible Materials** None established **EXPOSURE CONTROLS: PERSONAL PROTECTION** 8.

National Exposure Standards

The time weighted average concentration (TWA) for this product is: None specified: consider 10 mg/m3 which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: None specified: consider 5 mg/m3, which is the maximum allowable exposure concentration at any time. Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): None applies in this case. In addition to the exposure concentrations may be a subsidiary caution in such cases where the product is a skin sensitiser, represented as (Sk), none applies in this case.

Biological Limit Values (BLV)

None specified

Engineering controls

Ventilation. The use of local exhaust ventilation is recommended to control process emissions near the source.

Personal protective equipment

Respiratory protection

Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type 'A' filter material is considered suitable for this product.

Eye Protection

Always use safety glasses or a face shield when handling this product.

Skin/Body Protection

Exposure may cause minor irritation to the skin, wear normal work clothes to prevent exposure.

•	Unit of measurement	Typical Value
Appearance	None	White powder
Flash Point	°C	None
SG/Density (@ 15°C)	2.13	
Vapour Pressure @ 20°C	g/ml; kgm kPa	No data available
Vapour Density @ 20°C	-3 g/ml; kgm	No data available
Autoignition Temperature	°C	No data available
Explosive Limits in Air	% vol/vol	No data available
Acidity/alkalinity as pH	None	7.0
Solubility in Water		Moderate
Other solvents		iniouclute
	f this product's physical and chemical proper	ties For a full product
specification, please consult the		
	10. STABILITY AND REACTIVITY	
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	12. ECOLOGICAL INFORMATION	
Ecotoxicity		
Aquatic Toxicity		
Fish Toxicity LC50	Not toxic to aquatic life	
Daphnia Magna EC50	Not toxic to aquatic life	
Blue-green algae	Not toxic to aquatic life	
Green algae	Not toxic to aquatic life	
Persistence/Biodegradability	Will persist	
Mobility		

This product is mobile on dilution; avoid unintentional release to the environment. The product is a combination of naturally occurring minerals, and presents little environmental risk.

DISPOSAL CONSIDERATIONS

Disposal Methods

Packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities.

13.

Special Precautions

None

This product should be treated and disposed through appropriate waste treatment, or considered for use in recycling.

14. TRANSPORT INFORMATION						
Road and Rail Transport		Marine Transport		Air Transport		
UN No.	NR	UN No.	NR	UN No.	NR	
Proper Shipping Name	Diatomaceous Earth	Proper Shipping Name	Diatomaceous Earth	Proper Shipping Name	Diatomaceous Earth	
DG Class	NR	DG Class	NR	DG Class	NR	
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None	
Packing Group	NR	Packing Group	NR	Packing Group	NR	
Hazchem	NR	Hazchem	NR	Hazchem	NR	

Dangerous Goods Segregation

This product is not regulated for transport by Road and Rail.

		15.	REGULATORY INFORMATION
Country/Region	Australia		
Inventory	AICS		
Status	Listed		
Poisons Schedule	None		
		16.	OTHER INFORMATION

New product; amalgamated supplier changes in all sections.

Abbreviations:

Reasons for Issue:

AICS:	Australian Inventory of Chemical Substances
CAS Number:	Chemical Abstracts Number
IARC:	International Agency for Research on Cancer
ASCC:	Australian Safety and Compensation Council PPE: Personal Protective Equipment
N/R:	Non-regulated
N/A:	Not applicable
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References:

Supplier Material Safety Data Sheets

http://hsis.ascc.gov.au/SearchHS.aspx (August, 2008)

Animal toxicology data:

http://chem.sis.nlm.nih.gov/chemidplus (July, 2008)

Ecotoxicology data:

http://cfpub.epa.gov/ecotox/quick_query.htm (July, 2008)

Sax's Dangerous Properties of Industrial Materials, Richard J Lewis Snr., pub. Canada (2005)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The documentation represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult relevant legislation and regulations governing the use and storage of this product. For further information contact: Diatomaceous Earth Online.