

Section 1: Chemical Product and Company Identification

Product name: DiaSil™
 Micronized Diatomaceous Earth

Manufacturer/supplier information: Biofilm Crop Solutions. A Division of Novum Lifesciences.
 1/5 Scotland Street
 Bundaberg Qld 4670
 07 4132 5055

Emergency No: Dial 000 or Poisons Information Centre: 131126

Section 2: Hazards Identification

Statement of Hazardous Nature:

This product is classified as NON-HAZARDOUS according to the criteria of NOHSC Australia.
 Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Section 3: Composition and Information on Ingredients

Ingredients	CAS	Proportion
Diatomaceous earth	61790-53-2	≥ 95 %
Silica as quartz	14818-60-7	< 3%

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Section 4: First Aid Measures

- After inhalation:** Remove victim from exposure to fresh air. Drink a glass of water to clear throat and blow nose to evacuate dust. If symptoms persist, call a physician.
- After skin contact:** Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation persists, seek medical advice.
- After eye contact:** Immediately flush the eye(s) with flowing fresh water until the product is removed, while holding the eyelid(s) open. If irritation persists, seek medical attention.
- After swallowing:** Rinse mouth several times with clean fresh water. If symptoms persist, seek medical attention.
- First Aid facilities:** Maintain eyewash station and drench facilities in the work area.

Section 5: Fire Fighting Measures

Fire and Explosion Hazards: Non-combustible solid.

Extinguishing Media: Not Combustible. However, use medias to suit surrounding material and packaging material, that is, for example plastic containers.

Special Fire Fighting Instructions: Do NOT allow fire-fighting water to reach waterways, drains or sewers. Store fire-fighting water for treatment.

Personal Protective Equipment: When fighting fires involving significant quantities of this product, wear a splash suit complete with self-contained breathing apparatus.

Upper Flammability Limit: No data available **Lower Flammability Limit:** No data available

Autoignition Temperature: No data available **Flammability Class:** No data available

Section 6: Accidental Release Measures

General Response Procedure: Increase ventilation. Wear sufficient respiratory protection and protective clothing and sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Use absorbent paper dampened with water to pick up remaining material. Prevent the release from entering a waterway or sewer. Dispose of any contaminated material at an approved facility such as a municipal landfill.

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Section 7: Handling and Storage

Handling: Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.

Storage: Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Keep away from Incompatible products. Keep at temperature not exceeding: 50 °C (122 °F). This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.

Container: Store in original packaging as approved by manufacturer. Packaging material: Paper + PE, Polyethylene, Polypropylene, Woven plastic material + PE.

Section 8: Exposure Control / Personal Protection

General: The following National Occupational Health and Safety Commission (NOHSC) Exposure limits apply:

SUBSTANCE	TWA	
	ppm	mg/m ³
Silica: quartz	-	0.2
Silica: amorphous (diatomaceous earth)	-	10
Dust, not otherwise specified		10

NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week.

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.

Exposure Limits: No data available

Biological Limits: No information available

Engineering Measures: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection Equipment: RESPIRATOR: Respiratory protection that conforms to international/ national standards (AS1715/1716).

EYES: Safety goggles (AS1336/1337).

HANDS: Wear suitable gloves (AS2161).

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

Work Hygienic Practices: Do not eat, drink or smoke while using this product. Wash hands before breaks and end of workday. Handle in accordance with good industrial hygiene and safety practice.

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Section 9: Physical and Chemical Properties

Physical State:	Solid
Appearance:	White to light grey dust
Odour:	Odourless
Colour:	White to light grey
pH:	No data available
Vapour Pressure:	No data available
Relative Vapour Density:	No data available
Boiling/ Melting Point:	1500 degrees C (approx.)
Solubility:	No data available
Freezing Point:	No data available
Specific Gravity:	No data available
Flash Point:	No data available
Auto Ignition Temp:	No data available
Evaporation Rate:	No data available
Bulk Density:	No data available
Corrosion Rate:	No data available
Decomposition Temperature:	No data available
Density:	No data available
Additional Characteristics:	No data available

Section 10: Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions. Keep at temperatures not exceeding 50°C

Conditions to Avoid: Exposure to moisture.

Materials to Avoid: None

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Section 11: Toxicology Information

General Information: No toxicology information is available for this product. However for crystalline silica the following data has been extracted from the Register of Toxic Effects of Chemical Substances:

TOXICITY

Inhalation (human) LCLo: 0.3/m³/10Y

Inhalation (human) TCLo: 16mppcf/8H/17.9Y

-Intermittent; focal fibrosis, (pneumoconiosis), cough, dyspnoea.

Inhalation (rat) TCLo: 50mg/m³/6H/71W

-Intermittent; liver – tumours.

WARNING: For inhalation exposure only : Crystalline silica (respirable size <=7µm) has been classified by the IARC as Group 1 CARCINOGENIC TO HUMANS.

NOTE: The physical nature of quartz in the product determines whether it is likely to present a chronic health problem. To be a hazard the material must enter the breathing zone as respirable particles.

Inhalation: Inhalation of dust may cause irritation to the mucous membranes and upper airways. Symptoms of exposure can include nausea, coughing, sneezing and breathing difficulties.

Skin contact: May result in mild irritation with sensitive skin.

Eye contact: May cause irritation through dust discomfort and associated physical irritation.

Ingestion: Ingestion may cause irritation to the mouth, oesophagus and stomach.

Chronic Effects: Prolonged or repeated exposure to this material may result in irritation to the eyes and respiratory tract. As this product may contain traces of respirable silica, bronchitis, silicosis, and lung cancer may occur if the required dust mask is not worn during prolonged and repeated exposure. Studies have shown that smoking increases the risk in persons exposed to crystalline silica.

Section 12: Ecological Information

Ecotoxicity: No data is available for this material

Persistence/ Degradability: No data is available for this material

Mobility: No data is available for this material

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Section 13: Disposal Considerations

General Information: Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill: Contact a specialist disposal company or the local waste regulator for advice. Where possible recycling is preferred to disposal or incineration. Clean container with water. Dispose of rinse water in accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Section 14: Transport Information

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN Number:	None allocated.
Proper Shipping Name:	None allocated
ADG Class:	None allocated. Not a Dangerous Good
Hazchem Code:	None allocated.
Packaging Group:	None Allocated.

Section 15: Regulatory Information

Not classified as hazardous according to criteria of NOHSC.

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Section 16: Other Information

This SDS contains only safety-related information sourced from the public domain and analytical results on this product.

Acronyms:

ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

AICS: Australian Inventory of Chemical Substances

CAS number: Chemical Abstracts Service Registry Number

Hazchem Number: Emergency action code of numbers and letters that provide information for firefighters

IARC: International Agency for Research on Cancer

ASCC: Office of the Australian Safety and Compensation Council

NTP: National Toxicology Program (USA)

R-Phrase: Risk Phrase

SUSDP: Standard for the Uniform Scheduling of Drugs & Poisons

UN Number: United Nations Number

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