

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

1.1 Product identifier - Product name BIOWASTE absorbent

1.2 Uses and uses advised against

Use(s) Hydroponics, Horticulture, Viticulture, Agriculture, Insulation, Lightweight Concrete, Refractory Insulation, Filler, Texture Coating, Cryogenic Insulation, Spill Absorbent, Filter Aid.

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to SWA Criteria and the ADG Code.

GHS Classification Not Applicable

Poisons Schedule Not Applicable

2.2 GHS Label elements

Hazard Pictograms Not Applicable

Signal Word Not Applicable

Hazard statement(s) Not Applicable

Precautionary Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Ingredients

Name	Product Identifier	Proportion
Perlite	(CAS No.) 93763-70-3	99.9 – 100%
Crystalline Silica - Quartz	(CAS No.) 14808-60-7	<0.1%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove from contaminated area. Encourage casualty to blow nose to ensure clear passage of breathing. Apply artificial respiration if not breathing. If irritation or discomfort persist seek medical attention.

Skin Remove contaminated clothing and wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse. If symptoms develop seek medical attention.

Eye Immediately flush eye/s with plenty of water for at least 15minutes. Ensure complete irrigation of the eye. Remove contact lenses if easy to do so. If irritation or discomfort persist seek medical attention.

Ingestion Do NOT induce vomiting. If vomiting occurs, lean casualty forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Never give liquid to a person showing signs of reduced awareness. If symptoms develop seek medical attention.

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 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media - Use extinguishing media suitable for surrounding environment.

5.2 Special hazards arising from the substance or mixture- Non-combustible material. Not considered a fire risk.

5.3 Advise for firefighters

Firefighting Alert Fire Brigade and advise location and nature of hazard. Product is not combustible. No special firefighting instructions procedures required. Use firefighting procedures suitable for surrounding area.

Protection during Fire fighters should wear appropriate protective equipment and self-contained breathing

Firefighting apparatus (SCBA)

5.4 HAZCHEM code - None allocated

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures Avoid breathing dust. Use in well-ventilated area. Handle in accordance with good industrial hygiene and safety practices.

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

Emergency procedure Evacuate all unnecessary personnel. Increase ventilation.

6.2 Environmental precautions

Biowaste is inert and is not expected to present a hazard to the environment. Prevent product from entering drains and waterways. If contamination of waterways occurs, contact the Environmental Protection Authority (EPA).

6.3 Methods and materials for containment and cleaning up

Contain spillage immediately. Vacuum or wet sweep spilled material to avoid generating dust. Collect and transfer material to a suitable container for reuse or disposal. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well with soap and water. Dispose of in accordance with federal, EPA and state regulations.

6.4 References to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid generation of dust. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Before use carefully read the product label. Use of safe work practices are recommended to avoid inhalation and eye or skin contact. Observe good personal hygiene, including washing hands before eating, drinking, and smoking or using toilet facilities. Prohibit eating, drink and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store away from water, foodstuffs and incompatible materials. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

Storage container Multi-ply paper bag with sealed plastic liner or heavy gauge plastic bag.

NOTE: Bags should be stacked, blocked, interlocked, and limited in height so that they are stable and secure against sliding or collapse. Check that all containers are clearly labelled and free from leaks.

Incompatible Strong alkali, hydrogen fluoride (HF), sodium hydroxide (NaOH), strong acids, mineral acids and reducing agents.

7.3 Specific end use(s) - See Section 1 of SDS for further information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters - Occupational Exposure Limits (OEL)

Material Name	TWA	STEL	Peak	Notes
Perlite	10 mg/m ³	Not Available	Not Available	(a)
Crystalline Silica - Quartz	0.1 mg/m ³	Not Available	Not Available	

(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

Biological limits No biological limit values have been allocated for this material.

8.2 Exposure controls

Appropriate Use in well ventilated area. Local exhaust ventilation should be used to prevent excessively dusty conditions and to engineering controls maintain dust levels below exposure limits. Work areas should be cleaned regularly by wet sweeping or vacuuming.

Personal protective equipment

Eye Protection Wear safety glasses with side shields, safety goggles or full-face shield as appropriate. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Eye protection should conform to the specifications detailed in AS/NZS 1336:2014 Eye and Face Protection – Guidelines.

Hand protection Generally not required. However, for industrial use, wear gloves of impervious material. Reference should be made to AS/NZS 2161.1:2016 Occupational protective gloves - Selection, use and maintenance.

Body protection Wearing of long sleeved shirts and full-length trousers is recommended. Clothing should conform to the specifications detailed in AS/NZS 4501.1:2008 Occupational Protective Clothing – Guidelines on the selection, use, care and maintenance of protective clothing.

Respiratory If engineering controls are not effective in controlling airborne exposure then a Class P1 or P2 (Particulate) respirator should be worn. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Respiratory protection should conform to the specifications detailed in AS/NZS 1715:2009 Selection, Use and Maintenance of Respiratory Protective Devices and AS/NZS ISO 16972:2015 Respiratory Protective Devices – Terms, definitions, graphical symbols and units of measurement.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material and before eating, considerations drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Eye wash station is recommended.

Thermal protection Not Applicable

9. PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS

9.1 Information on basic physical and chemical properties

Physical state	Granular
Colour	White
Odour	Odourless
Melting point	1260 – 1343°C
Boiling point	Not Applicable
Flammability	Non-combustible
Lower Explosion limits	Not Applicable
Upper Explosion limits	Not Applicable
Flash point	Not Applicable
Auto-ignition temp.	Not Applicable
Decomposition temp.	Not Applicable
pH value	6.5 – 8
Kinematic viscosity	Not Applicable
Solubility	Soluble in hot concentrated alkali and Hydrogen Fluoride (HF) Moderately soluble (<10%) in 1N Sodium hydroxide (NaOH) Slightly soluble (<3%) in some mineral acids (1N) Insoluble in water
Partition coefficient (n-octanol/water)	Not Applicable
Vapour pressure	Not Applicable
Density and/or relative density	Not Applicable
Relative vapour density	Not Applicable
Particle characteristics	1µm – 15mm

9.2 Other information

Bulk density	32 – 400 kg/m ³
Specific Gravity	2.2 – 2.4

10. STABILITY AND REACTIVITY

10.1 Reactivity - Stable under normal conditions.

10.2 Chemical stability - Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions - Hazardous polymerization not expected to occur.

10.4 Conditions to avoid - Avoid dust generation.

10.5 Incompatible materials - Strong alkali, hydrogen fluoride (HF), sodium hydroxide (NaOH), strong acids, mineral acids and reducing agents.

10.6 Hazardous decomposition products - Reacts with Hydrofluoric Acid to form toxic silicon tetra fluoride gas.

11. TOXICOLOGICAL INFORMATION

11.1 Likely routes of exposure - Inhalation, skin contact and eye contact. Exposure by ingestion (swallowing) is not expected to occur.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation of airborne dust may cause irritation to the mucous membrane and upper airways. Symptoms can include coughing, sneezing and breathing difficulties. Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness.

Skin Prolonged contact with skin may cause irritation resulting in redness and itching. People with pre-existing skin conditions, such as dermatitis, should take extra care so as not to exacerbate the condition.




Eye Contact with eyes may cause mechanical irritation resulting in redness, lacrimation and pain. May cause mild abrasion.

Ingestion of large amounts may cause gastrointestinal disturbances. Symptoms can include nausea, vomiting and abdominal pain.

11.3 Toxicological effects from short and long term exposure

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Acute toxicity	⊘	Carcinogenicity	⊘
Skin corrosion/irritation	⊘	Reproductive toxicity	⊘
Serious eye damage/irritation	⊘	(STOT) – single exposure	⊘
Respiratory or skin sensitization	⊘	(STOT) – repeated exposure	⊘
Germ cell mutagenicity	⊘	Aspiration hazard	⊘

Legend:  - Data available but does not fill the criteria for classification
 - Data required to make classification available
 - Data not available to make classification

12. ECOLOGICAL INFORMATION

12.1 Toxicity - No data available for this material.

12.2 Persistence and degradability - No data available for this material.

12.3 Bio accumulative potential - No data available for this material.

12.4 Mobility in soil - No data available for this material.

12.5 Other adverse effects - No data available for this material.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal

Reuse or recycle where possible. Dispose of to an approved landfill. Dispose of in accordance with federal, EPA and state regulations.

14. TRANSPORT INFORMATION

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

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG)	AIR TRANSPORT (ICAO- IATA / DGR)
14.1 UN Number	Not Regulated	Not Regulated	Not Regulated
14.2 Proper Shipping Name	Not Regulated	Not Regulated	Not Regulated
14.3 DG Class	Not Regulated	Not Regulated	Not Regulated
14.4 Packing Group	Not Regulated	Not Regulated	Not Regulated

14.5 Environmental hazards - No data is available for this material.

14.6 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code) - Not regulated

14.7 Special precautions for user - HAZCHEM code None allocated

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the product

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 SWA (Safework Australia) criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

Inventory listing(s) AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

AUSTRALIA: HCIS (Hazardous Chemical Information System)

All components are listed on HCIS, or are exempt.

- Data available but does not fill the criteria for classification

- Data required to make classification available

- Data not available to make classification

16. OTHER INFORMATION

Additional information

PPE GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as 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.

HEALTH EFFECTS FROM It should be noted that the effects from exposure to this product will depend on several factors including:

EXPOSURE: 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.

Reference Materials

CONTACT DETAILS:

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DISCLAIMER:

The information given in this data sheet is to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. The information and recommendations offered are for the user's consideration and is the user's responsibility to satisfy themselves that they are suitable and complete for their purpose. We recommend that the safety and handling information presented in this data sheet be passed on, in an appropriate format, to your customers and handlers.

SDS date: 16 August 2016