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BIOHUB ENDO-4

Safety Data Sheet



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Overview

1. Identification of the Material and Manufacturer

Product Name	BioHub Endo-4
Intended Use	Agricultural rehabilitation soil improver
Details of Company	Biostim Pty Ltd
	PO Box 9151
	Pacific Paradise. Qld. 4564
Emergency Contact	+(61)-7 5329 2143

2. Hazards Identification

Non-Hazardous according to the criteria of Worksafe Australia

This product has been assessed in accordance with Model Work Health and Safety Regulations. Safety phases

- Do not breathe dust.
- Avoid contact with skin.
- Avoid contact with eyes.
- Wear suitable gloves.
- Use only in well ventilated areas.

Cases of legionnaires disease have been associated with breathing dusts from products of this type. While this is uncommon, you should take suitable precautions against dusts when using this product.

3. Composition/Information on Ingredients

Chemical Name

Beneficial endomycorrhizal propagules and proprietary ingredients

Solubility in Water 99.9% soluble

Product SDS

Ingredients

Mycorrhizal fungi and perlite

100%

Concentrate %

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

4. First Aid Measures

Ingostion	Swallowing this product may says a immediate or delayed abdominal discomfort and potentially
Ingestion	Swallowing this product may cause immediate or delayed abdominal discomfort and potentially
	increase the risk of gastro-intestinal infections.
	The patient should be given water to drink and medical attention should be sought if any
	abdominal symptoms occur. Vomiting should not be induced, but if vomiting occurs, the patient
	should be leant forward or placed on their left hand side to maintain an open airway.
Eye Contact	In the event that this material or the dust comes into contact with the eyes it may have an
	immediate or delayed irritating effect resulting in redness, watering, and/or infection.
	Eyes should be immediately and thoroughly flushed with lukewarm water for as long as
	necessary to alleviate the problem (or for at least 15 minutes). Ensure complete irrigation of the
	eye by keeping the eyelids apart and away from the eye and moving the eyelids by occasionally
	lifting the upper and lower lids. Removal of contact lenses after an eye injury should only be
	conducted skilled personnel. Professional medical assistance should be sought if symptoms
	persist.
Skin Contact	Skin contact with this product and/or their dusts may lead to immediate or delayed skin
	irritations and in susceptible people skin sensitisation, dermatitis and/or skin infection.
	The affected area should be washed thoroughly with mild soap and lukewarm water as quickly
	as possible.
Inhalation	Inhalation of dust from this product may have immediate or delayed effect to irritate, inflame or
	sensitise the nose, throat, and lungs, and exacerbate pre-existing conditions such as asthma and
	bronchitis. The repeated inhalation of dust from these products may lead to asthma, bronchitis,
	pneumonia or pneumonia-like illnesses (eg legionnaires disease). Children, pregnant women, the
	elderly, people with pre-existing conditions or the immuno-compromised, may be at a particular
	risk from these illnesses if exposed to this product.
	If an irritation occurs, the affected parties should be moved (or move themselves) away from the
	product or its dusts into a source of fresh air. The patient should be laid down, kept warm and be
	rested. Protheses such as false teeth, whichh may block the airways, should be removed where
	possible prior to intiating first aid procedures. Professional medical attention should be sought if
Special Medical Attention	symptoms persist.
-	There are no special treatments for mycorrhizal fungi. Conditions should be treated
and Treatment	symptomatically. All people who came into contact with this product should safeguard
	themselves adequately from tetanus.

5. Fire Fighting Measures

Suitable Extinguishing Media	Water or Class A extinguishers
Hazards From Combustible	The product may combust or spontaneously self combust in large stockpiles with internal
Products	temperatures around 75+ degrees celsius. Temperatures should be monitored by your
	organisation and sufficient water should be soaked into the pile.
Precautions	No special precautions.

6. Accidental Release Measures

Emergency Procedures	In the event of a spill or release of product from a transport vehicle or storage area in a
	sensitive environmental includeing near water bodies.
	1. Advise the Roads and Triffic Authority if a spill occurs from a transport vehicle. Ph 131 782
	2. Advise the Department of Environment and Conservation on the pollution landline and
	complete the necessary reports. Ph 131 555
	3. Advise the supplier emergency contact. Ph 0418 654 231
Methods and Materials for	In the vent of a spill or release of the product from a transport vehicle or storage area where
Containment & Clean Up	bunding does not exist in order to contain and clean up.
	1. Secure the site by covering the material with a sheet/tarpaulin secured to the ground in
	order to protect against dust emissions and gravitational flows into waterways. Bund the area
	and cover drains to protect gainst run-off in waterways, surrounding land and drainage
	systems.
	2. Clean up the spill immediately once the site is secured. Avoid generating dust.
	3. Collect the material, load, transport, and store all material released for use as planned or
	dispose of safely.
	4. Check the surrounding area to ensure all material has been captured. Collect all material is
	possible.

7. Handling and Storage

Precautions for Safe Handling

When handling this material ensure that workers stay away from equipment that is moving and/or processing exposed material and avoid coming into contact with the product by wearing

	1. A suitable respiratory protective device conforming with AS/NZS 1715: 1994 - Selection, use and
	maintenance or respiratory protective devices. A Class P1 particulate respirator is typically most
	appropriate.
	2. Suitable gloves conforming with AS/NZS 2161: 2000 - Occupational protective gloves. Standard
	duty leather/pigskin, rubber, or neoprene gloves are typically most appropriate.
	3. Full length protective trousers and shirt (or overalls).
	4. Suitable boots for the site.
	5. Suitable eye protection conforming with AS/NZS 1336: 1997 - Recommended practices for
	occupational eye protection. Low impact goggles with indirect ventilation (HT or CT with C, D
	optional) are typically most appropriate.
	Additional handling procedures should includee
	1. Limit exposure to the product.
	2. Wash any areas of the body that the product may have come into contact after exposure.
	3. Launder protective work clothes prior to re-use.
	4. Check the atmosphere regularly against the relevent exposure standards.
	5. Regularly vaccuum enclosed areas where the product is used or install a dust extraction
	system.
	6. Apply the material using a suitable garden or horticultural instrument.
Conditions for Safe Storage	When storing this material
	1. Protect stockpiles from wind and other adverse weather with a sheet/tarp or wind break
	secured to the ground.
	2. Bund the storage area.

8. Exposure Controls and Personal Protection

National Exposure Standards No specific standards have been allocated for mycorrhizal fungi. However due to the dust of the	
	product, concentrations for monitoring exposure are provided by a number of standards as listed
	below
	1. Total inhalable dust. 10 mg/m³
	2. Total respirable dust. 2 mg/m³
Biological Limit Values	No biological limit allocated.
Engineering Controls	Use only in well ventilated areas.
Personal Protection	Breathing masks, gloves, full length overalls, boots, safety glasses
Equipment	

9. Physical and Chemical Properties

Appearance
Odour
pH in Water

Light brown material Earthly odour 6-8

Vapour Pressure	Not relevent
Vapour Density	Not relevent
Boiling Point	Not relevent
Freezing/Melting Point	Not relevent
Solubility	Not soluble
SG	Not relevent
Flashpoint	Not relevent

10. Stability and Reactivity

Product is stable.
None
None
None
None

11. Toxicological Information

Ingestion	Ingestion is unlikely through normal use. However swallowing any amount of this product
	may cause immediate or delayed abdominal discomfort and potentailly increase the risk of
	gastro-intestinal infections.
	It is not recommended to repeatedly swallow this material.
Eye	In the event that any dose of this material or the dust comes into contact with the eyes it
	may have an immediate or delayed irritating effect resulting in redness and watering or an
	infection.
	It is not recommended to repeatedly allow this material to come into contact with the
	eyes.
Skin	Any level of skin contact with this product and/or their dusts may lead to immediate or
	delayed skin irritations and in susceptible people skin sensitisation, dermatitis or skin
	infection.
	It is not recommended for people susceptible to skin irritations to repeatedly allow this
	material to come into contact with their skin.
Inhalation	Inhalation of any amount of dust from this product may have an immediate or delayed
	effect to irritate, inflame or sensitise the nose, throat, and lungs and exacerbate pre-
	existing conditions such as asthma and bronchitis.
	It is not recommended for people to repeatedly inhale this material.
Chronic Health Effects	The repeated inhalation of dust from these products may lead to respiratory irritation,
	inflammation or sensitisation and illnesses such as asthma, bronchitis, pneumonia or

other pneumonia-like illnesses. Children, pregnant women, the elderly, people with preexisting conditions or the immuno-compromised, may be st a particular risk for these illnesses if exposed to the product.

It is not recommended to repeatedly swallow this material or repeatedly allow it to come into contact with the eyes. All people who come into contact with this product should safeguard themselves from tetanus.

12. Ecological Information

Ecotoxicity	R53. May cause long term adverse effects in the aquatic environment.
Persistence/Degradability	Not harmfully persistent, no harmful degrading.
Mobility	Only mobile in significant water or wind.

13. Disposal Considerations

Disposal Methods	Putrescible waste suitable landfill.
Special Precautions	Not relevent

Always dispose of in accordance with local, state, and federal regulations.

14. Transport Information

Transport of dangerous goods by land

UN Number	Non-applicable
Proper shipping name or Technical name	Non-applicable
Transport hazard class	Non-applicable
Packing group	Non-applicable
Environmental hazards for transport purposes	No
Special precautions for user	See section 9

15. Regulatory Information

Not relevent

16. Other Information

SDS Creation Date	4/08/2021
Issue Number	001. This issue number replaces all previous issues.
Customer Service	1300 064 020
Australian Poisons Info Centre	13 11 26

The product should not be used for purposes other than shown in Section 1 without first referring to the supplier and obtaining written instructions. As specific conditions of use of the product are outside of the suppliers' control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with. The information in this Safety Data Sheet is based on the present knowledge and current national legislation. It provides guidance on health, safety, and environmental aspects of the product and should not be construed as a guarantee of technical performance or suitability for particular applications. This SDS will be revised and updated as requirements occur. Should further information and relevant advice be required, contact BioHub Solutions Pty Ltd.