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BIOHUB LAB

Safety Data Sheet



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Overview

BioHub BioFeed has been assessed in accordance with model Work Health and Safety Regulations

1. Identification of the Material and Manufacturer

Product Name	BioHub LaB
Intended Use	Plant root coloniser for crops and biological soil fertiliser
Details of Company	BioHub Pty Ltd 3/49 Donaldson Road Rocklea, Qld, 4106
Emergency Contact	Poisons Hotline 131166
UN Number	N/A
D.G. Class	N/A
Subsidiary Risk	None
Hazchem Code	N/A
Packaging Group	N/A
Poisons Schedule	N/A

2. Hazards Identification

Hazardous according to the criteria of Worksafe Australia

This product has been assessed in accordance with Model Work Health and Safety Regulations and deemed not hazardous substance or mixture.

Precautionary Statements

Hazard Statement

- May form dust concentrations In the air. Not classified as dangerous goods.

General

- Fine dust clouds may occur from mixtures with air. Handling and/or processing of this material maygenerate a dust which can cause mechanical irritation of the eyes, skin, nose, and throat.

Prevention

- Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
- Prevent dust accumulation.

Response

- Reduce accumulation of dust in air and surfaces.

Storage

- Products should be under refrigeration at 3 degrees. Any mechanical action may generate dust. Avoid formation of combustible dust concentrations in the air.

Disposal

- Not applicable.

Poisons Schedule

- Not applicable.

Other hazards which do not result in classification

May aggravate those with respiratory issues and or pre-existing eye, skin, or respiratory conditions.

3. Composition/Information on Ingredients

Ingredients found non-hazardous or below reporting limits.

Substance Name	None presenting a hazard
Chemical Description	Mixture of organic and inorganic substances
Components	

4. First Aid Measures

General	The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.
On Inhalation	This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.
On Eye Contact	Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the person uses contact lenses, these should be removed unless they are stuck onto the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quick as possible with the SDS of this product.
On Skin Contact	In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters) seek medical advice with this SDS.

On Ingestion

In case of consumption, seek immediate medical assistance showing the SDS of this product.

5. Fire Fighting Measures

Fire and Explosion Hazards

The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media

Not combustible. Use extinguishing media suited to burning materials.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash Point

Will not burn until water component is driven off.

Upper Flammability Limit

Does not burn

Lower Flammability Limit

Does not burn

Autoignition temperature

Does not burn

Flammability Class

Does not burn

6. Accidental Release Measures

Accidental Release

In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Use PVC gloves. Eye/face protective equipment should comprise, as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

7. Handling and Storage

Handling

Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible

Storage

Store in a fridge at of 3 - 4 °C and keep well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, foodstuffs, extremely high or low temperatures and incompatible materials, and ignition sources. Close containers when not in use - check regularly for spills.

Incompatible Products

Strong acids. Strong bases. Strong oxidizers. Other microbial products.

8. Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210. Exposure limits have not been established by SWA for any of the significant ingredients in this product. No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Do not inhale dust, avoid contact with eyes, skin, and clothing, avoid prolonged and repeated exposure. For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Appropriate Engineering Controls

None specifically. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment

Wear a mask, tightly fitting. Protective goggles, tightly fitting. Gloves. Protective clothing. Chemically resistant materials and fabrics.

Hand Protection

Wear chemically resistant gloves.

Eye Protection

Wear chemical goggles or safety glasses.

Skin and Body Protection

Wear suitable protective clothing

Respiratory Protection	Wear a mask
Environmental Exposure Controls	Do not allow the product to be released into the environment.
Consumer Exposure Controls	Do not eat, drink, or smoke during use.

9. Physical and Chemical Properties

Physical state at 20°C	Powder
Appearance	White/cream to light tan powder, may have pink or yellow tinge.
Odour	Earthy
Odour Threshold	Non-applicable
pH (neat)	3.5-7
Vapour Density at 25°C	Non-applicable
Partition Co-Efficient n-octanol/water at 25°C	Non-applicable
Solubility in Water at 25°C	Non-applicable
Solubility Properties	Suspended until mixed
Decomposition Temperature	Non-applicable
Melting Point/Freezing Point	Non-applicable
Explosive Properties	Non-applicable
Oxidising Properties	Non-applicable
Flash Point	Non Flammable (>93°C)
Flammability (solid/gas)	Non-applicable
Auto-ignition Temperature	Non-applicable
Lower Flammability Limit	Non-applicable
Upper Flammability Limit	Non-applicable
Lower Explosive Limit	Non-applicable
Upper Explosive Limit	Non-applicable
Surface Tension at 25°C	Non-applicable
Refraction Index	Non-applicable

10. Stability and Reactivity

Reactivity	No hazardous reactions are expected because the product is stable under recommended storage conditions.
Conditions to Avoid	This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry. Keep isolated from combustible materials.
Incompatibilities	Strong bases, strong oxidising agents, other microbials.

11. Toxicological Information

Target Organs

There is no data to hand indicating any particular target organs.

Inhalation

Short Term Exposure: This product is an inhalation irritant. Symptoms may include headache, irritation of nose and throat and increased secretion of mucous in the nose and throat. Other symptoms may also become evident, but they should disappear after exposure has ceased if treatment is prompt.

Long Term Exposure: No data for health effects associated with long term inhalation.

Skin Contact

Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However, product is believed to be mildly irritating, but is unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact

Short Term Exposure: This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion

Short Term Exposure: Significant oral exposure is considered to be unlikely. This product, while believed to be not harmful, is likely to cause headache and gastric disturbance such as nausea and vomiting if ingested in significant quantities. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

12. Ecological Information

The experimental information related to the eco-toxicological properties of the product itself is not available. Contains phosphates. Excessive discharge may cause eutrophication.

Ecotoxicity

Not available

Persistence and degradability

Not available

Bioaccumulative potential

Not available

Mobility in soil	Not available
Results of PBT and vPvB assessment	Non-applicable
Other adverse effects	Not described

13. Disposal Considerations

Waste management (disposal and evaluation)

This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. If neither of these options is suitable in-house, consider controlled incineration, or contact a specialist waste disposal company.

The material is not hazardous waste according to regulations (40 CFR 261). This material could become a hazardous material if mixed or comes in contact with a hazardous waste. If chemical additions are made to this material, or if the altered material is a hazardous waste, consult the appropriate state, regional or local regulator for additional requirements.

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
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

15. Regulatory Information

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage, and disposal of this product.

16. Other Information

SDS Creation Date	1/11/2024
Issue Number	001. This issue number replaces all previous issues.
Customer Service	1300 064 020
Australian Poisons Info Centre	13 11 26

All information is given in the best of our knowledge by Soil Tech Service/Associates/Contractors and Suppliers and is believed to be accurate. Your conditions of use and application of the suggested product are beyond our control. There is no warranty regarding the accuracy of any given date or statements or recommendations. Soil Tech Service specifically refuses any responsibility or liability relating to the use of the suggested products and recommendations and shall under no circumstances whatsoever, be liable for any special, incidental, or consequential damages which may arise from such use. No guarantees or warranty can be made by Soil Tech Service as they have no control over the end use, including weather, transport, storage, mixing and end user application of product. Not for animal or human consumption.

17. Auxillary Notes

Derivatives or/and contents.	No	Yes
Nuts	✓	
Eggs	✓	
Dairy and dairy derivatives.	✓	
Fish	✓	
Wheat	✓	
Mustard	✓	
Peanuts	✓	
Sesame seeds	✓	

Sulphur dioxide.	✓	
Lupin	✓	
Celery	✓	
Crustaceans	✓	
Mollusks	✓	
Soy	✓	
Other cereals containing gluten.	✓	