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BIOHUB BIOFEED

Safety Data Sheet



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Overview

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

- Irritating

1. Identification of the Material and Manufacturer

Product Name	BioHub BioFeed
Intended Use	Soil Conditioner
Details of Company	BioHub Pty Ltd 3/49 Donaldson Road Rocklea, Qld, 4106
Emergency Contact	Chemtrec +(61)-2 9037 2994
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

- Skin Irritation Category 2
- Eye Irritation Category 2B
- Specific Target Organ Toxicity (resp) - Single Exposure Category 3

Precautionary Statements

Hazard Statement

- H315. Causes skin irritation.

- H320. Causes eye irritation.
- H335. May cause respiratory irritation.

Prevention

- P261. Avoid breathing fumes, mists, vapours or spray.
- P262. Do not get in eyes, on skins, or on clothing.
- P264. Wash contacted areas after handling.
- P271. Use only outdoors or in a well-ventilated area.
- P281. Use personal protective equipment as required.

Response

- P312. Call a poison centre or doctor If you feel unwell.
- P362. Take off contaminated clothing and wash before reuse.
- P301+P330+P331. If swallowed rinse mouth. DO NOT INDUCE VOMITING.
- P302+P352. If on skin wash with plenty of soap and water.
- P304+P340. If inhaled remove victim to fresh air and keep at rest in a position comfortable to breathing.
- P305+P351+P338. If in eyes rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P332+P313. If skin irritation occurs get medical advice.
- P337+P313. If eye irritation persists, get medical advice.
- P370+P378. Not combustible. Use extinguishing media suited to burning materials.

Storage

- P405. Store locked up.
- P403+P233. Store In a well-ventilated place. Keep container tightly closed.

Disposal

- P501. If they cannot be recycled, dispose of contents to an approved waste disposal plant and containers to landfill.

Other hazards which do not result in classification

Non-applicable.

3. Composition/Information on Ingredients

Substances presenting a health hazard within the meaning of the chemicals (Hazard Information and Packaging) Regulations 1993. This is a commercial product whose exact ratio of components may vary slightly.

Substance Name	None presenting a hazard
Chemical Description	Mixture of organic and inorganic substances
Components	CAS: 1415-93-6. Potassium humates Concentration 30-60%

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	<p>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.</p> <p>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.</p>
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 packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Keep containers dry and away from water. Keep away from combustible materials. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

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.

Ventilation	This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan.
Eye Protection	Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.
Skin Protection	You should avoid contact even with mild skin irritants. Therefore, you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.
Protective Material Types	We suggest that protective clothing be made from the following materials: PVC.
Respirator	Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

9. Physical and Chemical Properties

Physical state at 20°C	Liquid
Appearance	Black or Dark Brown Liquid
Odour	Not available
Odour Threshold	Non-applicable
Boiling Point	Above 100°C at sea level
Vapour Pressure	2.37 kPa at 20C (water vapour pressure)
Evaporation Rate at 25°C	Non-applicable
Specific Gravity at 25°C	1.22
Relative Density at 25°C	1.22
Dynamic Viscosity at 25°C	<10cP
Kinematic Viscosity at 25°C	Non-applicable
Kinematic Viscosity at 40°C	Non-applicable
Concentration	Non-applicable
pH (neat)	4-6

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	Non-applicable
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, metals.
Fire Decomposition	This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Polymerisation	Polymerisation reactions are unlikely; they are not expected to occur.

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.
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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
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Non-applicable

Transport of dangerous goods by sea

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code Non-applicable

Transport of dangerous goods by air

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code Non-applicable

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

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.