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# BIOHUB UNLOCK

## Safety Data Sheet



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# Overview

BioHub Unlock has been assessed in accordance with model Work Health and Safety Regulations. This product is classified as: Hazardous according to the criteria of SWA. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

## 1. Identification of the Material and Manufacturer

<b>Product Name</b>	BioHub Unlock
<b>Intended Use</b>	Liquid Fertiliser
<b>Details of Company</b>	BioHub Pty Ltd 3/49 Donaldson Road Rocklea, Qld, 4106
<b>Emergency Contact</b>	Australian Agricultural Chemicals +(61)-7 3806 5733
<b>UN Number</b>	N/A
<b>D.G. Class</b>	N/A
<b>Subsidiary Risk</b>	None
<b>Hazchem Code</b>	N/A
<b>Packaging Group</b>	N/A
<b>Poisons Schedule</b>	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. Classified as hazardous.

### Precautionary Statements

#### Hazard Statement

- H319. Causes serious eye Irritation.

#### Prevention

- P102. Keep out of reach of children
- P262. Do not get in eyes, on skins, or on clothing.
- P264. Wash contacted areas after handling.
- P280. Wear protective gloves, protective clothing and eye/face protection.

**Response**

- P353. Rinse skin or shower with water.
- P301+P330+P331. If swallowed rinse mouth. DO NOT INDUCE VOMITING.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice.
- P370+P378. Not combustible. Use extinguishing media suited to burning materials.

**Storage**

- P404. Store in a closed container.

**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.

<b>Substance Name</b>	None presenting a hazard
<b>Chemical Description</b>	Clear, colourless liquid
<b>Major Health Hazards</b>	May cause serious damage to eyes.
<b>Components</b>	CAS: 7732-18-5. Water. Concentration to 100% CAS: secret. Proprietary organic acid blend. Concentration 30-60%%

## 4. First Aid Measures

<b>General</b>	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.
<b>On Inhalation</b>	First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
<b>On Eye Contact</b>	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

**On Skin Contact**

Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

**On Ingestion**

If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre or call a doctor.

## 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**

Does not burn

**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

<b>Physical state at 20°C</b>	Liquid
<b>Appearance</b>	Clear, colourless liquid
<b>Odour</b>	Mild but sharp odour
<b>Boiling Point</b>	Above 100°C at sea level
<b>Vapour Pressure</b>	2.37 kPa at 20C (water vapour pressure)
<b>Evaporation Rate at 25°C</b>	Non-applicable
<b>Specific Gravity at 25°C</b>	1.2
<b>Relative Density at 25°C</b>	1.2
<b>Dynamic Viscosity at 25°C</b>	
<b>Kinematic Viscosity at 25°C</b>	Non-applicable
<b>Kinematic Viscosity at 40°C</b>	Non-applicable
<b>Concentration</b>	Non-applicable
<b>pH (neat)</b>	<1.0
<b>Vapour Density at 25°C</b>	Non-applicable
<b>Partition Co-Efficient n-octanol/water at 25°C</b>	Non-applicable
<b>Solubility in Water at 25°C</b>	Non-applicable
<b>Solubility Properties</b>	Non-applicable
<b>Decomposition Temperature</b>	Non-applicable
<b>Melting Point/Freezing Point</b>	Non-applicable
<b>Explosive Properties</b>	Non-applicable
<b>Oxidising Properties</b>	Non-applicable
<b>Flash Point</b>	Non Flammable (>93°C)
<b>Flammability (solid/gas)</b>	Non-applicable
<b>Auto-ignition Temperature</b>	Non-applicable
<b>Lower Flammability Limit</b>	Non-applicable
<b>Upper Flammability Limit</b>	Non-applicable
<b>Lower Explosive Limit</b>	Non-applicable
<b>Upper Explosive Limit</b>	Non-applicable
<b>Surface Tension at 25°C</b>	Non-applicable
<b>Refraction Index</b>	Non-applicable

## 10. Stability and Reactivity

<b>Reactivity</b>	No hazardous reactions are expected because the product is stable under recommended storage conditions.
<b>Conditions to Avoid</b>	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.
<b>Incompatibilities</b>	Strong bases, strong oxidising agents, metals.
<b>Fire Decomposition</b>	<p>This product is likely to decompose only after heating to dryness, followed by further strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. Carbon monoxide</p> <p>poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment,</p> <p>and unconsciousness followed by coma and death.</p>
<b>Polymerisation</b>	Polymerisation reactions are unlikely; they are not expected to occur.

## 11. Toxicological Information

<b>Target Organs</b>	There is no data to hand indicating any particular target organs.
<b>Inhalation</b>	<p>Short Term Exposure: Significant inhalation exposure is considered to be unlikely. Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.</p> <p>Long Term Exposure: No data for health effects associated with long term inhalation.</p>
<b>Skin Contact</b>	<p>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.</p> <p>Long Term Exposure: No data for health effects associated with long term skin exposure.</p>
<b>Eye Contact</b>	<p>Short Term Exposure: This product is a severe eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms such as swelling of eyelids and blurred vision may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment is likely to cause permanent damage.</p> <p>Long Term Exposure: No data for health effects associated with long term eye exposure.</p>
<b>Ingestion</b>	<p>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.</p>



**Carcinogen Status**

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

**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

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

<b>Ecotoxicity</b>	Not available
<b>Persistence and degradability</b>	Not available
<b>Bioaccumulative potential</b>	Not available
<b>Mobility in soil</b>	Not available
<b>Results of PBT and vPvB assessment</b>	Non-applicable
<b>Other adverse effects</b>	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.

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

## 14. Transport Information

Transport of dangerous goods by land

<b>UN Number</b>	Non-applicable
<b>Proper shipping name or Technical name</b>	Non-applicable
<b>Transport hazard class</b>	Non-applicable
<b>Packing group</b>	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

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