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# BIOHUB CARBON+

## Safety Data Sheet



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# Overview

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

- Eye Damage. Serious eye damage Category 1, H318

## 1. Identification of the Material and Manufacturer

<b>Product Name</b>	BioHub Carbon+
<b>Intended Use</b>	Fertilising compound granule
<b>Details of Company</b>	BioHub Pty Ltd 3/49 Donaldson Road Rocklea, Qld, 4106
<b>Emergency Contact</b>	Chemtrec +(61)-2 9037 2994

## 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

- Eye damage. Serious eye damage Category 1, H318.

### Precautionary Statements

P280. Wear eye protection and face protection.

P305, P351, P338. If contact with eyes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310. Immediately call a Poison Centre or doctor/physician.

### 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.

<b>Substance Name</b>	None presenting a hazard
<b>Chemical Description</b>	Mixture composed of chemical products
<b>Components</b>	CAS: 7320-34-5 Tetrapotassium pyrophosphate Concentration <10%

### 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>	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.
<b>On Eye Contact</b>	Rinse eyes thoroughly with luke warm 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.
<b>On Skin Contact</b>	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.
<b>On Ingestion</b>	In case of consumption, seek immediate medical assistance showing the SDS of this product.

## 5. Fire Fighting Measures

**Suitable Extinguishing Equipment**

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

**Specific Hazards Arising From the Chemical**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and consequently can present a serious health risk.

**Special Protective Equipment and Precautions for Fire Fighters**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available.

**Additional Provisions**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosive or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## 6. Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures**

Isolate leaks provided that there is no additional risk for the people performing the task. Personal protection equipment must be used against potential contact with the spilt product. Evacuate the area and keep out those who do not have protection.

**Environmental Precautions**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

**Methods and Materials for Contained and Cleaning Up**

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**Reference to Other Sections**

See sections 8 and 13.

## 7. Handling and Storage

### **Precautions for Safe Handling** 1. Precautions for safe manipulation.

Comply with current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe measures. Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

### 2. Technical recommendations for the prevention of fire and explosives

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

### 3. Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

### 4. Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product.

### **Conditions for Safe Storage**

#### **Including any**

#### **Incompatibilities**

### 1. Technical measures for storage

Minimum temperature: 5°C

Maximum temperature: 30°C

### 2. General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food.

### **Specific End Use**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of the product.

## 8. Exposure Controls and Personal Protection

**Exposure Control Measures** Substances whose occupational exposure limits have to be monitored in the workplace. There are no occupational exposure limits for the substances contained in the product.

Nuisance dust

Inhalable dust 10mg/m<sup>3</sup> and respirable dust 4mg/m<sup>3</sup>

### Engineering Controls

#### 1. Individual Protection Measures

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment refer to the manufacturers website. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### 2. Respiratory Protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

#### 3. Specific Protection for Hands

Use protective gloves against minor risks. Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using chemical protection gloves.

#### 4. Ocular and Facial Protection

Use panoramic glasses against splash/projections. Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

#### 5. Bodily Protection

Use work clothing and anti-slip work shoes

### Environmental Exposure Controls

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see Section 7.

## 9. Physical and Chemical Properties

**Physical state at 20°C**

Solid

**Appearance**

Black Granulated

**Odour**

Not available

**Odour Threshold**

Non-applicable

**Boiling Point**

100°C at sea level

**Vapour Pressure at 25°C**

3185 Pa

<b>Vapour Pressure at 50°C</b>	Non-applicable
<b>Evaporation Rate at 25°C</b>	Non-applicable
<b>Density at 25°C</b>	500-700 kg/m <sup>3</sup>
<b>Relative Density at 25°C</b>	Non-applicable
<b>Dynamic Viscosity at 25°C</b>	Non-applicable
<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>	10-12 at 1%
<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>	200 kg/m <sup>3</sup>
<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-applicable
<b>Flammability (solid/gas)</b>	Non-applicable
<b>Auto-ignition Temperature</b>	229°C
<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>Chemical Stability</b>	Chemically stable under the conditions of storage, handling, and use.
<b>Possibility of Hazardous Reactions</b>	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
<b>Conditions to Avoid</b>	Shock and friction. Not applicable. Contact with air. Not applicable. Increase in temperature. Avoid temperatures above 30°C Sunlight. Not applicable. Humidity. Keep away from humidity
<b>Incompatible Materials</b>	Acids. Avoid strong acids. Water. Not applicable. Oxidising materials. Not applicable. Combustible materials. Not applicable. Others. Avoid strong alkalis or strong bases.
<b>Hazardous Decomposition Products</b>	Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide, carbon monoxide and other organic compounds.

## 11. Toxicological Information

The experimental information related to the toxicological properties of the product itself is not available.

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure

<b>Ingestion (acute effect)</b>	Acute toxicity. Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. Corrosivity/Irritability. Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.
<b>Inhalation (acute effect)</b>	Acute toxicity. Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. Corrosivity/Irritability. Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.
<b>Contact with the skin and eyes (acute effect)</b>	Contact with the skin. The product is not an irritant or corrosive to the skin. Contact with the eyes. Produces serious eye damage after contact.
<b>CMR effects</b>	Carcinogenicity. Does not contain substances classified as dangerous for the effects mentioned. Mutagenicity. Does not contain substances classified as dangerous for the effects mentioned.

	Reproductive toxicity. Does not contain substances classified as dangerous for the effects mentioned.
<b>Sensitising effects</b>	Respiratory. Does not contain substances classified as dangerous with sensitising effects. Cutaneous. Does not contain substances classified as dangerous for the effects mentioned.
<b>Specific target organ toxicity (STOT)</b>	Single exposure. Does not contain substances classified as dangerous for the effects mentioned. Repeated exposure. Does not contain substances classified as dangerous for the effects mentioned.
<b>Aspiration hazard</b>	Does not contain substances classified as dangerous for the effects mentioned.

## 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.

<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

<b>Waste management (disposal and evaluation)</b>	Consult the authorised waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise it will be processed as non-dangerous residue. We do not recommend disposal down the drain.
<b>Regulations related to waste management</b>	Basel convention (hazardous waste) Hazardous Waste (Regulation of Exports and Imports) Act 1989 and Amendments

**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

<b>SDS Creation Date</b>	10/03/2020
<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.