

# SAFETY DATA SHEET

Product Name: Bardee Base Fertiliser  
 Preparation Date: 19/01/2022  
 Safety Data Sheet according to WHS and ADG requirements

## Section 1: Identification of the substance / mixture and of the company / undertaking

### Product Identifier

Product name	Bardee Base Fertiliser
Synonyms	Not Available
Other means of identification	Not Available

This SDS is intended for the following range of similar fertiliser products:

- Bardee - Superfly Fertiliser Fine Granule
- Bardee - Superfly Fertiliser Pellet
- Bardee - Hydrofly Fertiliser Fine Granule
- Bardee - Hydrofly Fertiliser Pellet
- Bardee - Hydrofly Exuvia

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Fertiliser
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### Details of the supplier of the safety data sheet

Registered company name	Beyond Ag Pty Ltd, trading as Bardee
Address	6/45 Bunnett Street, Sunshine North, Victoria 3020 Australia
Telephone	+61 431 630 058
Website	bardee.com
Email	hello@bardee.com

### Emergency telephone number

Association / Organisation	Beyond Ag Pty Ltd, trading as Bardee
Emergency telephone numbers	+61 431 630 058

## Section 2: Hazards Identification

### Classification of the substance or mixture

Poisons Schedule	Not Applicable
Classification	Not Applicable

### Label elements

Hazard pictogram(s)	Not Applicable
SIGNAL WORD	NOT APPLICABLE



**Hazard statement(s)**

H333: May be harmful if inhaled.

**Precautionary statement(s) Prevention**

P260: Do not breathe dusts.

**Precautionary statement(s) Response**

P314: Get medical advice or attention if you feel unwell.  
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P370+P378: Not combustible. Use extinguishing media suited to burning materials.

**Precautionary statement(s) Storage**

Not Applicable

**Precautionary statement(s) Disposal**

P501: Dispose of contents and containers to landfill.

**Section 3: Composition / information on ingredients**

**Substances**

See section below for composition of Mixtures

**Mixtures**

CAS No	%[weight]	Name
Not Available	>70%	Black soldier fly larvae frass
Not Available	10-30%	Biochar
Not Available	10-30%	Kelp meal
Not Available	10-30%	Minerals or trace elements
Not Available	To 100%	Other non-hazardous ingredients

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

**Section 4: First aid measures**

**General information**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Description of first aid measures**

<b>Eye contact</b>	<p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>• Wash out immediately with fresh running water.</li> <li>• Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>• Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>• Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
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<b>Skin contact</b>	<p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>• Immediately remove all contaminated clothing, including footwear.</li> <li>• Flush skin and hair with running water (and soap if available).</li> <li>• Seek medical attention in event of irritation.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>• If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>• Other measures are usually unnecessary.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>• Immediately give a glass of water. First aid is not generally required.</li> <li>• If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**Section 5: Firefighting measures**

**Extinguishing media**

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

**Special hazards arising from the substrate or mixture**

<b>Fire Incompatibility</b>	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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**Advice for firefighters**

<b>Fire Fighting</b>	<ul style="list-style-type: none"> <li>• Alert Fire Brigade and tell them location and nature of hazard.</li> <li>• Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>• Prevent, by any means available, spillage from entering drains or water courses.</li> <li>• Use fire fighting procedures suitable for surrounding area.</li> <li>• DO NOT approach containers suspected to be hot.</li> <li>• Cool fire exposed containers with water spray from a protected location.</li> <li>• If safe to do so, remove containers from path of fire.</li> <li>• Equipment should be thoroughly decontaminated after use.</li> </ul>
<b>Fire/Explosion Hazard</b>	<ul style="list-style-type: none"> <li>• Non combustible.</li> <li>• Not considered a significant fire risk, however containers may burn.</li> </ul> <p>Other decomposition products include:</p> <ul style="list-style-type: none"> <li>• carbon monoxide (CO)</li> <li>• carbon dioxide (CO<sub>2</sub>)</li> <li>• nitrogen oxides (NO<sub>x</sub>)</li> <li>• ammonia</li> <li>• sulfur oxides (SO<sub>x</sub>)</li> <li>• other pyrolysis products typical of burning organic material.</li> <li>• May emit poisonous fumes.</li> <li>• May emit corrosive fumes.</li> </ul>
<b>HAZCHEM</b>	Not Applicable.



**Section 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

See section 8

**Environmental precautions**

See section 12

**Methods and material for containment and cleaning up**

<b>Minor spills</b>	<ul style="list-style-type: none"> <li>• Clean up all spills immediately.</li> <li>• Avoid contact with skin and eyes.</li> <li>• Wear impervious gloves and safety glasses.</li> <li>• Use dry clean up procedures and avoid generating dust.</li> <li>• Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>• Do NOT use air hoses for cleaning</li> <li>• Place spilled material in clean, dry, sealable, labelled container.</li> </ul>
<b>Major spills</b>	<ul style="list-style-type: none"> <li>• Clear area of personnel and move upwind.</li> <li>• Alert Fire Brigade and tell them location and nature of hazard.</li> <li>• Control personal contact with the substance, by using protective equipment and dust respirator.</li> <li>• Prevent spillage from entering drains, sewers or water courses.</li> <li>• Avoid generating dust.</li> <li>• Sweep, shovel up. Recover product wherever possible.</li> <li>• Put residues in labelled plastic bags or other containers for disposal.</li> <li>• If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

**Section 7: Handling and storage**

**Precautions for safe handling**

<b>Safe handling</b>	<ul style="list-style-type: none"> <li>• Limit all unnecessary personal contact.</li> <li>• Wear protective clothing when risk of exposure occurs.</li> <li>• Use in a well-ventilated area.</li> <li>• Avoid contact with incompatible materials.</li> <li>• When handling, DO NOT eat, drink or smoke.</li> <li>• Keep containers securely sealed when not in use.</li> <li>• Avoid physical damage to containers.</li> <li>• Always wash hands with soap and water after handling.</li> <li>• Work clothes should be laundered separately.</li> <li>• Use good occupational work practice.</li> <li>• Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>• Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
<b>Other information</b>	<ul style="list-style-type: none"> <li>• Store in original containers.</li> <li>• Keep containers securely sealed.</li> <li>• Store in a cool, dry area protected from environmental extremes.</li> <li>• Store away from incompatible materials and foodstuff containers.</li> <li>• Protect containers against physical damage and check</li> </ul>



	<p>regularly for leaks.</p> <ul style="list-style-type: none"> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul> <p>For major quantities:</p> <ul style="list-style-type: none"> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>
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**Conditions for safe storage, including any incompatibilities**

<b>Suitable container</b>	<p>Multi-ply bag with sealed plastic liner or heavy gauge plastic bag.</p> <p>NOTE: Bags should be stacked, blocked, interlocked, and limited in height so that they are stable and secure against sliding or collapse. Check that all containers are clearly labelled and free from leaks. Packing as recommended by manufacturer.</p>
<b>Storage incompatibility</b>	<p>Avoid contamination of water, foodstuffs, feed or seed.</p>

**Section 8: Exposure controls / 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**

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.

**Exposure controls**

<b>Engineering controls</b>	<p>This product should be used in a well ventilated area. Natural ventilation should be adequate under normal use conditions. avoid dust formation.</p> <p>If natural ventilation is inadequate, use of a fan is suggested.</p>
<b>Personal protection</b>	
<b>Eye and face protection</b>	<ul style="list-style-type: none"> <li>Safety glasses with side shields</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of</li> </ul>



	chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
<b>Skin protection</b>	See Hand protection below.
<b>Hands/feet protection</b>	Wear general protective gloves, eg. light weight rubber gloves.
<b>Body protection</b>	See Other protection below
<b>Respirator</b>	If there is a significant chance that dust is likely to build up in the area where this product is being used, we recommend that you use a suitable dust mask. The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
<b>Other protection</b>	No special equipment needed when handling small quantities. OTHERWISE: <ul style="list-style-type: none"> <li>• Overalls</li> <li>• Barrier cream</li> <li>• Eyewash unit</li> </ul>

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Brown pelletised insect castings; slightly soluble in water.		
<b>Physical state</b>	Divided solid	<b>Relative density (Water = 1)</b>	Not Available
<b>Odour</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (C)</b>	Not Available
<b>pH (as supplied)</b>	Not Applicable	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Applicable
<b>Initial boiling point and boiling range (C)</b>	Not Available	<b>Molecular weight (g/mol)</b>	Not Applicable
<b>Flash point (C)</b>	Not Applicable	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Applicable	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Applicable	<b>Oxidising properties</b>	Not Available
<b>Upper explosive limit (%)</b>	Not Applicable	<b>Surface tension (dyn/cm or mN/m)</b>	Not Applicable
<b>Lower explosive limit (%)</b>	Not Applicable	<b>Volatile Component (%vol)</b>	Not Applicable



Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/l	Not Available

## Section 10: Stability and reactivity

Reactivity	See section 7
Chemical stability	<ul style="list-style-type: none"> <li>• Unstable in the presence of incompatible materials</li> <li>• Product is considered stable</li> <li>• Hazardous polymerisation will not occur</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## Section 11: Toxicological information

### Information on toxicological effects

Inhaled	<p>Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulates are inhaled.</p> <p>If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures. Inhalation of dust and/or liquid mist (bioaerosols) from these products may result in respiratory irritation, inflammation or sensitisation resulting in illnesses ranging from hayfever to asthma to potentially fatal pneumonia (eg Legionnaire's disease) and pneumonia-like illnesses. Persons with pre-existing respiratory conditions, reduced lung function, the elderly and immunocompromised are at higher risk.</p>
Ingestion	<p>Accidental ingestion of the material may be damaging to the health of the individual. Ingestion may result in nausea, abdominal irritation, pain and diarrhoea</p>
Skin contact	<p>The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.</p> <p>Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.</p> <p>Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p>
Eye	<p>The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants</p>



	may produce conjunctivitis.
<b>Chronic</b>	Long term exposure to high dust concentrations may cause changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 micron penetrating and remaining in the lung. A prime symptom is breathlessness. Lung shadows show on X-ray.

<b>Bardee Base Fertiliser</b>	<table border="1"> <tr> <td><b>Toxicity</b></td> <td><b>Irritation</b></td> </tr> <tr> <td>Not Available</td> <td>Not Available</td> </tr> </table>		<b>Toxicity</b>	<b>Irritation</b>	Not Available	Not Available
	<b>Toxicity</b>	<b>Irritation</b>				
Not Available	Not Available					

<b>Legend</b>	<ol style="list-style-type: none"> <li>Value obtained from Europe ECHA Registered Substances - acute toxicity.</li> <li>*Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of Chemical Substances.</li> </ol>
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<b>Acute toxicity</b>	Data either not available or does not fit the criteria for classification	<b>Carcinogenicity</b>	Data either not available or does not fit the criteria for classification
<b>Skin irritation/corrosion</b>	Data either not available or does not fit the criteria for classification	<b>Reproductivity</b>	Data either not available or does not fit the criteria for classification
<b>Serious eye damage/irritation</b>	Data either not available or does not fit the criteria for classification	<b>STOT - Single Exposure</b>	Data either not available or does not fit the criteria for classification
<b>Respiratory or skin sensitisation</b>	Data either not available or does not fit the criteria for classification	<b>STOT - Repeated Exposure</b>	Data either not available or does not fit the criteria for classification
<b>Mutagenicity</b>	Data either not available or does not fit the criteria for classification	<b>Aspiration Hazard</b>	Data either not available or does not fit the criteria for classification

## Section 12: Ecological information

### Toxicity

<b>Bardee Base Fertiliser</b>	<table border="1"> <tr> <td><b>Endpoint</b></td> <td><b>Test duration (HR)</b></td> <td><b>Species</b></td> <td><b>Value</b></td> <td><b>Source</b></td> </tr> <tr> <td>Not Available</td> <td>Not Available</td> <td>Not Available</td> <td>Not Available</td> <td>Not Available</td> </tr> </table>					<b>Endpoint</b>	<b>Test duration (HR)</b>	<b>Species</b>	<b>Value</b>	<b>Source</b>	Not Available	Not Available	Not Available	Not Available	Not Available
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Not Available	Not Available	Not Available	Not Available	Not Available											
<b>Legend</b>	<p><i>Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data</i></p>														





DO NOT DISCHARGE INTO SEWER OR WATERWAYS.

**Persistence and degradability**

Ingredient	Persistence: Water/Soil	Persistence: Air
	No data available for all ingredients	No data available for all ingredients

**Bioaccumulative potential**

Ingredient	Bioaccumulation
	No data available for all ingredients

**Mobility in soil**

Ingredients	Mobility
	No data available for all ingredients

**Section 13: Disposal considerations**

**Waste treatment methods**

Product / Packaging disposal	
	<ul style="list-style-type: none"> <li>Recycle wherever possible.</li> <li>Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material)</li> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>

**Section 14: Transport information**

**Labels required**

Marine Pollutant	NO
HAZCHEM	Not Applicable

**Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS UNDER ADG AND NZ5433:2012 TRANSPORT OF DANGEROUS GOODS ON LAND**

**Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Transport in bulk according to Annex II of MARPOL and the IBC code**

Not Applicable

**Section 15: Regulatory information**

**Safety, health and environmental regulations / legislation specific for the substance or mixture**

Based on available information, not classified as hazardous according to criteria of Safe Work Australia.



Based on available information, not considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms (HSNO) legislation.

**National Inventory Status**

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	Yes
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Phillipines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	Yes
<b>Legend:</b>	Yes = all CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)

**Section 16: Other information**

This SDS contains only safety-related information. For other data see Product Specification.

This SDS summarises our best knowledge of the health and safety hazard statement: information of the product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled and used in the workplace.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company so we can attempt to obtain additional information.