

APPENDIX J

Hepburn Bio Care UK Ltd

Material safety data sheet

Commercial Product name: **Bio-Ammo-1000**

1. Identification

- 1.1 Product Name** Bio-Ammo-1000
1.2 Use Reestablishment of nitrification in waste treatment processes
1.3 Manufacturer Hepburn Bio Care UK Ltd
Unit F1/F2, 10th Avenue
Deeside Industrial Park
Deeside, Flintshire, Tel No +44 (0) 1244 280 775
CH2 2UA UK Fax No +44 (0) 1244 280 776

2. Composition

Viable nitrifying bacteria in nutrient liquid

3. Hazard Identification

The preparation is not classified as hazardous

4. First Aid Measures

- a) Eye splash:** Irrigate thoroughly with water
b) Skin splash: Wash off with soap and water
c) Ingestion: Non-toxic, but if in doubt seek medical advice.
d) Inhalation: In the event of excessive inhalation, remove to fresh air and obtain medical advice.

In all cases, if symptoms persist, seek immediate medical advice.

5. Fire Fighting Measures

Does not support combustion so any extinguishing media may be used but should be appropriate to the cause of the fire. Low degree of risk due to thermal decomposition, but toxic fumes may be evolved if product is burnt.

6. Accidental Release Measures

In the event of accidental spillage, mop up and wash away remainder with plenty of water.

7. Handling and Storage

- 7.1** Store product in a cold dry place.
7.2 Protect from light, raised temperature and humidity.

8. Exposure Controls

No special handling precautions are required.

9. <u>Physical and Chemical Properties</u>	
9.1 Appearance	Clear pale pink liquid
9.2 Changes in physical state:	Decomposes >270°C
9.3 Density	100g/100 cm ³
9.4 Solubility in water:	100% water soluble
9.5 pH value:	7.5-8.5
10. <u>Stability and Reactivity</u>	
The stability of the bacteria is dependent upon the storage conditions, see Sec.7. All other constituents are stable under normal storage conditions.	
11. <u>Toxicological Information</u>	
The micro-organisms are all ACDP hazard class 1 and are thus unlikely to cause infection but it should not be assumed that this could never occur. Immunocompromised people should avoid working with the product.	
12. <u>Ecological Data</u>	
The microorganisms are naturally occurring saprophytic bacteria, which do not represent a threat to the environment. The base materials are biodegradable.	
13. <u>Disposal Considerations</u>	
Packaging can be disposed as normal industrial waste.	
14. <u>Transport Information</u>	
No restrictions.	
15. <u>Regulatory Information</u>	
Not classified as hazardous.	
16. <u>Other Information</u>	
The information given in this data sheet has been compiled using information from the approved code of practice for the compilation of safety data sheets, and the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. The information above is based on present knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification of quality of the product. The user must satisfy himself that the product is entirely suitable for the purpose.	
Revision: 02	Revision Date : 8/12/07
Reason for Revision: New chip regulations	

Commercial Product name: Bio-Ammo-1000

1. Identification

- 1.1 Product Name** Bio-Ammo-1000
1.2 Use Reestablishment of nitrification in waste treatment processes
1.3 Manufacturer Hepburn Bio Care UK Ltd
Unit F1/F2, 10th Avenue
Deeside Industrial Park
Deeside, Flintshire, UK Tel No +44 (0) 1244 280 775
CH2 2UA UK Fax No +44 (0) 1244 280 776

2. Composition

Viable nitrifying bacteria in nutrient liquid

3. Hazard Identification

The preparation is not classified as hazardous

4. First Aid Measures

- a) Eye splash:** Irrigate thoroughly with water
b) Skin splash: Wash off with soap and water
c) Ingestion: Non-toxic, but if in doubt seek medical advice.
d) Inhalation: In the event of excessive inhalation, remove to fresh air and obtain medical advice.

In all cases, if symptoms persist, seek immediate medical advice.

5. Fire Fighting Measures

Does not support combustion so any extinguishing media may be used but should be appropriate to the cause of the fire. Low degree of risk due to thermal decomposition, but toxic fumes may be evolved if product is burnt.

6. Accidental Release Measures

In the event of accidental spillage, mop up and wash away remainder with plenty of water.

7. Handling and Storage

- 7.1** Store product in a cold dry place.
7.2 Protect from light, raised temperature and humidity.

8. Exposure Controls

No special handling precautions are required.

9. Physical and Chemical Properties

- 9.1 Appearance** Clear pale pink liquid
9.2 Changes in physical state: Decomposes >270°C

<p>9.3 Density</p> <p>9.4 Solubility in water:</p> <p>9.5 pH value:</p>	<p>100g/100 cm³</p> <p>100% water soluble</p> <p>7.5-8.5</p>
<p>10. <u>Stability and Reactivity</u> The stability of the bacteria is dependent upon the storage conditions, see Sec.7. All other constituents are stable under normal storage conditions.</p>	
<p>11. <u>Toxicological Information</u> The micro-organisms are all ACDP hazard class 1 and are thus unlikely to cause infection but it should not be assumed that this could never occur. Immunocompromised people should avoid working with the product.</p>	
<p>12. <u>Ecological Data</u> The microorganisms are naturally occurring saprophytic bacteria, which do not represent a threat to the environment. The base materials are biodegradable.</p>	
<p>13. <u>Disposal Considerations</u> Packaging can be disposed as normal industrial waste.</p>	
<p>14. <u>Transport Information</u> No restrictions.</p>	
<p>15. <u>Regulatory Information</u> Not classified as hazardous.</p>	
<p>16. <u>Other Information</u> The information given in this data sheet has been compiled using information from the approved code of practice for the compilation of safety data sheets, and the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. The information above is based on present knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification of quality of the product. The user must satisfy himself that the product is entirely suitable for the purpose.</p>	
<p>Revision: 02 Reason for Revision: New chip regulations</p>	<p>Revision Date : 8/12/07</p>