

# BARMAC e-FLOW ESSENTIAL

## MATERIAL SAFETY DATA SHEET

DATE OF ISSUE: 08.11.2011

PREPARED BY: LL

### 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

**PRODUCT NAME:**  
e-Flow Essential

**APVMA REGISTRATION NUMBER:** Not applicable.  
**SCHEDULE:** Not Applicable.

**USE:**  
Fertiliser

**AUSTRALIAN MANUFACTURER:**

Barmac Pty Ltd  
17 Machinery Street,  
Darra, QLD 4076

**EMERGENCY PHONE NUMBERS:**

1-877-854-2494 (USA/Canada)  
+1-952-852-4636 Outside  
USA/Canada  
Poisonings: 131 126 POISON INFORMATION CENTRE

**FORM:**  
Liquid Fertiliser

Phone (07) 3727 3000

### 2. HAZARD IDENTIFICATION

**CLASSIFICATION:** Not classified as hazardous according to the criteria of NOHSC. Non- Dangerous According to the ADGC for RRT.

**RISH PHRASES:** R36/37/38

**SAFETY PHRASES:** S26, S64.

**UN NUMBER:** Not Applicable

### 3. COMPOSITION INFORMATION ON INGREDIENTS

**MIXTURE: CHEMICAL IDENTITY:**

Diammonium Phosphate

Urea

Potassium Nitrate

Iron Chelate

Zinc Chelate

Manganese Chelate

Copper Chelate

INERT INGREDIENTS

**PROPORTION (%w/v):**

<10

<10

<10

<10

<1

<1

<1

>10

**CAS NO:**

7783-28-0

57-13-6

7757-79-1

21626-24-4

14025-21-9

15375-84-5

14025-15-1

### 4. FIRST AID MEASURES

**SWALLOWED:** Swallowing small quantities is not harmful. If swallowed, immediately rinse mouth out with water. Seek medical advice.

**EYE CONTACT:** Flush with cool water for at least 15 minutes. If irritation develops, obtain medical assistance.

**SKIN CONTACT:** A small amount of skin contact is not normally harmful. Remove contaminated clothing and wash skin thoroughly with soap and water. If irritation develops, obtain medical assistance.

**INHALED:** Inhalation is not normally harmful. Recovery is rapid after removal from exposure. If symptoms are experienced, remove source of contamination or remove victim to fresh air.

**FIRST AID FACILITIES:** Provide eye wash and shower facilities in workplace..

## 5. HEALTH EFFECTS

**SWALLOWED:** Ingesting of very large amounts may cause diarrhoea, nausea, vomiting and cramps.

**SKIN:** Mildly irritating to skin. If exposed to frequent and prolonged contact it can cause dermatitis or skin irritations. No effect should occur if the product is promptly washed off.

**EYES:** Can cause mild irritation to eyes.

**INHALATION:** If the product is present in high concentrations of airborne dust, prolonged contact may cause irritation to the nose and throat

## 6. FIRE-FIGHTING MEASURES

### SPECIAL FIRE FIGHTING PROCEDURES:

There are no fire related hazards. The material is not oxidising or release excess volumes of gasses on heating.

### EXTINGUISHING MEDIA:

Use foam, dry chemical, carbon dioxide or water spray when fighting fires involving this material. Wear positive pressure, self-contained breathing apparatus and full protective clothing. Avoid smoke inhalation. Contain any liquid run off.

### UNUSUAL FIRE & EXPLOSION HAZARDS:

Not explosive

### FLAMMABILITY:

This product is not highly flammable.

### EXPOSURE LIMIT:

The preparation is not known to produce hazardous decomposition products under normal storage conditions. Normal products of organic combustion will be released under normal conditions or pyrolysis or combustion.

### HAZCHEM CODE:

Not applicable

## 7. ACCIDENTAL RELEASE MEASURES

**PERSONAL PROTECTION:** Gloves should be worn during clean up.

**ENVIRONMENTAL PROTECTION:** Avoid entry to watercourses. In a major spillage, if the product does enter drainage systems or watercourses, immediately inform the appropriate authorities.

**CLEAN UP AND DISPOSAL:** Small spills can be swept for re-use. Or can be sluiced away with large quantities of water to drains. Large spills, (>100 L), should be swept up and shovelled into containers for reclamation. Add any broken packages to the container. Sluice down the spill area with large quantities of water. Do not contaminate streams, rivers or water courses

## 8. HANDLING AND STORAGE

### HANDLING:

When using do not eat, drink or smoke. Wash thoroughly before smoking, eating or using toilet facilities. Wear overalls, boots, gloves, dust masks and safety goggles. Avoid inhaling dust. Where high concentration of airborne dust is present, respirators conforming to AS1716 should be worn.

**STORAGE:** Store in a cool place. Store apart from combustible materials, herbicides and fungicides and foodstuffs.

**TRANSPORT:** Not classified as a Dangerous Good according to the ADGC for RRT.

## 9. EXPOSURE CONTROL/PERSONAL PROTECTION

<b>EXPOSURE LIMITS:</b> No exposure limit has been assigned to this product. Where no specific exposure standard has been assigned, the recommended exposure level for dust in general shall be 10mg/m <sup>3</sup> measured as inspirable dust. The exposure limit is expressed as a time weighted average (TWA) concentration over an eight hour working shift, for a 5 day working week, and is the limit recommended by the supplier of this material.	<b>EYE PROTECTION:</b> The preparation is a non- dusty, non-irritant, non-sensitising solid and poses no splash or impact risk.	<b>RESPIRATOR TYPE:</b> Avoid inhaling dust. Where high concentration of airborne dust is present, respirators conforming to AS1716 should be worn
<b>SKIN PROTECTION:</b> Wear overalls, boots, gloves, dust masks and safety goggles.	<b>VENTILATION:</b> Not required	<b>HYGIENE RECOMMENDATIONS:</b> When using do not eat, drink or smoke. Wash thoroughly before smoking, eating or using toilet facilities.

## 10. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b> Dark brown liquid, slight odour..	<b>BOILING POINT:</b> Not applicable.	<b>MELTING POINT:</b> Not applicable.	<b>FREEZING POINT:</b> Not applicable.
<b>FLASH POINT:</b> Not applicable.	<b>DENSITY:</b> Not applicable.	<b>VAPOR PRESSURE:</b> Not applicable	<b>SOLUBILITY:</b> Non soluble.

## 11. STABILITY AND REACTIVITY

<b>STABILITY:</b> Stable if stored in original container under normal ambient conditions.
<b>INCOMPATIBILITY/CONDIONS TO AVOID:</b> This product is not known to undergo hazardous reactions in contact with other products. .
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> This product is not known to produce hazardous decomposition products under normal conditions of use, handling and storage. Normal products of organic combustion will be released under conditions of pyrolysis and combustion.

## 12. TOXICOLOGICAL INFORMATION

<b>ACUTE:</b> No data on acute toxicological effects.
<b>REPEATED DOSE TOXICITY:</b> No data available.
<b>CARCINOGEN DATA:</b> No evidence of carcinogenic effects.
<b>MUTAGENIC DATA:</b> No evidence of mutagenicity.
<b>REPRODUCTIVE EFFECTS:</b> No adverse reproductive effects have been observed in experimental animals.

### 13. ECOLOGICAL INFORMATION

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

### 14. DISPOSAL

**WASTE DISPOSAL METHOD:**

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. The Hierarchy of Controls seems to be common - the user should investigate: Reduce, Reuse, and Recycle and only if all else fails should disposal be considered. Note that properties of a product may change in use, so that the following suggestions may not always be appropriate. The following may help you in properly addressing this matter for this product. 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 separate the contamination in some way. Only if neither of these options is suitable, consider landfill.

### 15. TRANSPORT INFORMATION

**UN NO:** Not applicable.

**UN PROPER SHIPPING NAME:** Not classified as a Dangerous Good according to the ADGC for RRT.

**SHIPPING NAME:** Fertiliser

### 16. REGULATORY INFORMATION

**POISONS SCHEDULE:**

Not applicable

**HAZARD CATEGORY:**

Not classified as Hazardous for supply/use.

**PACKAGING AND LABELLING:**

See risk phases and safety phases in Section 2.

**CLASSIFICATION:**

Not classified as Dangerous for supply/use.

### 16. OTHER INFORMATIONS

**This MSDS contains only safety-related information. For other data see product literature.**

**Acronyms:**

**ADG Code:** Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

**SWA** Safe Work Australia, formerly ASCC and NOHSC

**CAS Number** Chemical Abstracts Service Registry Number

**SUSDP** Standard for the Uniform Scheduling of Drugs & Poisons

**UN:** United Nations Number

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