

DATE OF ISSUE: 24TH DECEMBER 2007

BARMAC INDUSTRIES PTY LTD
BOX FLAT ESTATE SWANBANK RD. SWANBANK Q 4306
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BARMAC MANNI-PLEX Mn
PHONE: (07) 3280 3000
EMERGENCY AFTER HOURS NUMBER: (07) 3280 3000

Classified as **NON-HAZARDOUS** by Worksafe Australia Criteria

IDENTIFICATION

OTHER NAMES: N/A
USE: Micronutrient fertiliser
UN NUMBER: N/A
HAZCHEM CODE: N/A
DANGEROUS GOODS CLASS: N/A
POISONS SCHEDULE: N/A

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE: Peach coloured liquid with no odour.
FLASHPOINT (° C): Does not flash.
BOILING POINT (° C): N/A
FLAMMABILITY LIMITS (%): N/A
VAPOUR PRESSURE (___): N/A
SOLUBILITY IN WATER (g/L): Miscible.
SPECIFIC GRAVITY: N/A
pH: Not determined
VAPOUR DENSITY (air = 1): N/A
FREEZING POINT: 0°C
DENSITY: 4.49kg/3.74 L (1.19)
EVAPORATION RATE: Not determined
VISCOSITY: Viscosity
% VOLATILE: N/A
OCTANOL/WATER PARTION COEFFICIENT: N/A
STAURATED VAPOR CONCENTRATION: N/A

INGREDIENTS

<u>CHEMICAL ENTITY</u>	<u>CAS NO</u>	<u>PROPORTION</u>
Non hazardous ingredients		100%

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HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE:

SWALLOWED: May cause stomach cramps and/or nausea.

EYES: May cause temporary eye irritation.

SKIN: May cause slight irritation, especially from prolonged exposure. May cause redness.

INHALED: None expected but inhalation may cause mild irritation of nasal mucous membranes.

SUBCHRONIC EFFECTS: N/A

CHRONIC: N/A

FIRST AID

SWALLOWED: If conscious and alert, administer water or milk to dilute, then induce vomiting. Call Poisons Information Centre on 13 11 26 or physician immediately. Do not give anything by mouth to an unconscious person.

EYES: Rinse eyes with plenty of running water for at least 15 minutes. Get medical attention if irritation persists.

SKIN: Wash with plenty of water and soap. Remove contaminated clothing and shoes. Get medical attention if irritation persists.

INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth and get medical attention.

FIRST AID FACILITIES: Normal first aid facilities should suffice.

ADVICE TO DOCTOR: Treat symptomatically.

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PRECAUTIONS FOR USE

EXPOSURE STANDARDS: N/A

ENGINEERING CONTROLS: N/A

PERSONAL PROTECTION:

EYES: Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.

SKIN: Impervious gloves and clothes.

RESPIRATORY: Not normally needed. If use generated and aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).

VENTALIATION: Recommended but no TLV established.

FLAMMABILITY: N/A

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SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT: Store in original container only in a cool, well-ventilated, dry place at temperatures between 4 and 35°C. Do not store near food or feeds. Do not stack pallets more than two (2) high. Transfer Product using chemical-resistant plastic or stainless steel tanks, pumps, valves, ect. Keep out of children. Harmful if swallowed. Avoid breathing spray mists or vapours. Avoid contamination of feed or foodstuffs. After using this product remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water.

D.O.T.:

Not D.O.T. regulated

OTHER SHIPPING DESCRIPTION:

Fertilizing compounds (Manufactured), Liquid.
NMFC Item 68140 Sub 6, LTL Class 70

SPILLS AND DISPOSAL: Prevent product spillage from entering drinking water supplies or streams. Collect liquid or absorb onto absorbent material and package for disposal. Do not contaminate lakes, streams, ponds, estuaries, oceans, or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local waste disposal regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

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FIRE/EXPLOSION HAZARD:

TEST METHOD: N/A
LEL FLAMMABLE LIMITS: N/A
UEL FLAMMABLE LIMITS: N/A
AUTOIGNITION TEMPERATURE: N/A
FLAMMABILITY CLASSIFICATION: Nonflammable
KNOWN HAZARDOUS PRODUCTS OF COMBUSTION: Not known
PROPERTIES THAT INITIATE/CONTRIBUTE TO INTENSITY OF FIRE: Not known
POTENTIAL FOR DUST EXPLOSION: None
REACTIONS THAT RELEASE FLAMMABLE GASES OR VAPORS: Not known
POTENTIAL FOR RELEASE OF FLAMMABLE VAPORS: Not known
UNUSUAL FIRE & EXPLOSION HAZARDS: None
EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical, or water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Wear positive pressure, self-contained breathing apparatus and full protective clothing. Avoid smoke inhalation. Contain any liquid run off.

STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: Do not mix with liquid fertilizers containing phosphates
INCOMPATIBILITY: Not available
HAZARDOUS DECOMPOSITION PRODUCTS: Burning may result in formation of carbon monoxide and nitrate fumes
HAZARDOUS POLYMERIZATION: Will not occur.

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ECOLOGICAL INFORMATION

ALGAL/LEMNA GROWTH INHIBITATION: Not known

TOXICITY TO FISH AND INVERTEBRATES: Not known

TOXICITY TO PLANTS: Not known

TOXICITY TO BIRDS: Not known

REGULATORY INFORMATION

CERCLA: None

SARA TITLE III, SECTION 313 TOXIC CHEMICALS: Manganese compounds (5.0%)

NOTICE: Information for this product is believed to be reliable, however buyer and user assume all risk of use, handling and storage whether in accordance with directions or not. Barmac Industries Pty Ltd and its agents give no guarantee or warranty of any kind express or implied concerning the use of this product and will not accept any responsibility whatsoever whether in contract or tort for any loss including consequential loss arising out of the use of this product or caused by this product.
