

DATE OF ISSUE 14 April 2009

**BARMAC INDUSTRIES PTY LTD
BOX FLAT ESTATE SWANBANK RD. SWANBANK Q 4306**

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BARMAC AUTOFERT PHOS
PHONE: (07) 3280 3000
EMERGENCY AFTER HOURS NUMBER: (07) 3280 3000

Classified as hazardous by Worksafe Australia Criteria

IDENTIFICATION

OTHER NAMES: None
COMPOSITION: Nutrient and organic product blend
USE: Fertilizer
UN NUMBER: N/A
HAZCHEM CODE: 2R
DANGEROUS GOODS CLASS: Corrosive (8)
POISONS SCHEDULE: 6

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE: dark brown, syrupy liquid, strong organic odour.
FLASHPOINT (° C): N/A
pH: 1.72
BOILING POINT (° C): N/A
FLAMMABILITY LIMITS (%): N/A
VAPOUR PRESSURE (___): N/A
SOLUBILITY IN WATER (g/L): Soluble
SPECIFIC GRAVITY:
ADDITIONAL INFORMATION:

INGREDIENTS

<u>CHEMICAL ENTITY</u>	<u>CAS NO.</u>
Phosphoric Acid	7664-38-2
Water	7732-18-5
Urea	57-13-6
Zinc Nitrate	7779-88-6
Potassium Carbonate	584-08-7
Autokelp	

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HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE:

SWALLOWED: Causes burns to the mouth, throat and stomach. Can cause nausea, difficulty in breathing, shock, acidosis, convulsions and collapse. Corrosive material, Causes burns. Ingestion of this product may cause nausea, vomiting, diarrhoea, corrosion, burns to the mouth and esophagus with strong pain (Risk of perforation!), abdominal pain, chest pain, shortness of breath, seizures and death may result.

EYES: Causes irritation or burns. Corrosive material. Causes burns, tissue destruction, permanent damage to the cornea with a risk of blindness

SKIN: Causes irritation or burns, dryness and cracking. Dermatitis may occur from prolonged exposure. Injuries are more severe with hot acid.

INHALED: Causes irritation to the respiratory system. Vapours and mists are corrosive to the nose, throat and mucous membranes. Mist may cause irritation to nose, throat and lungs, shortness of breath, and fluid in the lungs.

CHRONIC: No significant health effects could be found. This material is not considered to be a carcinogen or mutagen and no reproductive effects have been identified.

FIRST AID:

Remove victim to fresh air – Apply resuscitation if victim is not breathing. Do not use direct mouth-to-mouth method. If victim ingested or inhaled the substance use alternate respiratory method or proper respiratory device. Administer oxygen if breathing is difficult. Remove contaminated clothing and shoes immediately. In case of contact with material immediately flush eyes or skin

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with running water for at least 15 minutes. For minor skin contact, avoid spreading material on unaffected skin. Keep victim warm and quiet – Obtain immediate medical care – Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved and take precautions to protect themselves. Contact Poisons Information Centre for further advice.

SWALLOWED: Do not induce vomiting. If conscious give a little water to drink. Obtain medical attention immediately.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Obtain medical attention.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Obtain medical attention immediately. Immediately wipe excess material off skin with a dry cloth; then wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Discard if they cannot be thoroughly cleaned.

INHALED: Remove to fresh air and remove contaminated clothing. If not breathing apply artificial respiration. If breathing is difficult, give oxygen.

FIRST AID FACILITIES: Ensure an eye bath and safety showers are available and ready to use.

ADVICE TO DOCTOR: Treat symptomatically based on judgement of doctor and individual reactions of patient.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS: No standards known.

ENGINEERING CONTROLS: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

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PERSONAL PROTECTION: Wear rubber gloves with gauntlets, SCBA and chemical splash unit, chemical safety goggles, acid-resistant protective clothing with rubber boots and is misting occurs use an appropriate respirator. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural fire fighter's suit is NOT effective for these materials.

FLAMMABILITY: Product is a non-flammable liquid.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT: Avoid breathing mist. Keep container tightly closed. Keep away from direct sunlight, alkalis, sulphides, cyanides and metal powders. Store in corrosion-proof ventilated area. Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Liquid phosphoric acid will attack some plastics. Avoid contact with eyes, skin and clothing. Do not inhale vapour/fumes. Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials such as oxidising agents, reactive metals zinc and bare steel, strong reducing agents, fluorine, metals, metal oxides, metal alloys, strong bases, sulfur trioxide, phosphorous pentoxide, and sources of ignition. Provide sufficient heating to prevent crystallisation. Protect from excessive heat, moisture and static charges.

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SPILLS AND DISPOSAL: Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 50 metres. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if state to do so – Prevent entry into waterways, drains, or confined areas. Cover with DRY earth, sand or other non-combustible material followed by plastic sheet to minimise spreading or contact with rain. Do not get water in containers. Neutralize spilled product with lime or soda. Soak up using absorbent material such as sand or soil. When saturated, collect material and transfer to a suitable, labelled, dry, sealable containers and hold for safe disposal.

FIRE/EXPLOSION HAZARD: Material is non-flammable. Strong caustics will liberate much heat and cause spattering. Fire or heat will produce irritating, poisonous and/ or corrosive gases. Containers may explode when heated. Some may ignite combustibles (wood, paper, and clothing, ECT.). Contact with metals may evolve flammable hydrogen gas. Some will decompose explosively (D) or polymerize violently (P) when heated or involved in a fire.

EMERGENCY RESPONSE

EVACUATION:

Large Spill: Consider initial downwind evacuation for at least 250 metres.

Fire: When any large container (including road and rail tankers) is involved in a fire consider initial evacuation for 800 metres in all directions.

FIRE:

Small Fire: use dry chemical, CO2, foam or water spray. If safe to do so, move undamaged containers from fire area.

Large Fire: Use dry chemical, CO2, foam or water spray – Do not use water jets. Cool Containers with flooding quantities of water until well after fire is out. Avoid getting water

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inside containers.

Fire Involving Tanks: Fight fire from protected position using unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or discolouration of tank. Always stay away from tank ends.

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.
