

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 SUPERPHOSPHATE FINE

PHONE: (07) 3280 3000

EMERGENCY AFTER HOURS NUMBER: (07) 3280 3000

Not classified as hazardous by Worksafe Australia Criteria

IDENTIFICATION

OTHER NAMES: Ground Single Super

USE: Fertilizer

UN NUMBER: N/A

HAZCHEM CODE: N/A

DANGEROUS GOODS CLASS: N/A

POISONS SCHEDULE: N/A

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE: Grey brown solid. Mild acid odour.

FLASHPOINT (°C): N/A

BOILING POINT (°C): N/A

FLAMMABILITY LIMITS (%): N/A

VAPOUR PRESSURE (20°C): N/A

SOLUBILITY IN WATER (g/L): Soluble in water.

SPECIFIC GRAVITY: 1.1

RELATIVE VAPOUR DENSITY (air=1): N/A

AUTOIGNITION TEMPERATURE (°C): N/A

% VOLATILE BY WEIGHT: N/A

MELTING POINT/RANGE (°C): N/A

DECOMPOSITION POINT (°C): N/A

SUBLIMATION POINT (°C): N/A

pH: N/A

VISCOSITY: N/A

STABILITY: Product is stable for at least 2 years under ambient storage conditions.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS)

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INGREDIENTS

<u>CHEMICAL ENTITY</u>	<u>CAS NO</u>	<u>PROPORTION</u>
Superphosphate	8011-76-5	100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS: Not considered a health hazard under normal circumstances.

ACUTE: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

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

EYES: Mildly irritating to eyes.

SKIN: Mildly irritating to skin. Frequent and prolonged contact can cause dermatitis. No effects should occur if promptly washed off.

INHALED: If present as high concentrates of airborne dust, prolonged contact may cause irritation to the nose, throat and respiratory irritation.

CHRONIC:

FIRST AID: For advice, contact a Poisons Information Centre (Phone eg. Australia 131126; New Zealand 0 800 764766) or a doctor.

SWALLOWED: Swallowing small quantities is not normally harmful. Immediately rinse mouth with water. Give water to drink. If vomiting occurs give further water. Seek medical advice.

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EYES: Hold eyes open, flood with water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.

SKIN: A small amount of skin contact is not normally harmful. Remove contaminated clothing and wash skin thoroughly with soap and water. Launder contaminated clothing before re-use. Seek medical advice.

INHALED: Inhalation is not normally harmful. Recovery is rapid after removal from exposure. Avoid becoming a casualty. If symptoms are experienced, remove source of contamination or remove victim to fresh air. If symptoms persist, seek medical advice.

LONG TERM EFFECTS: This product contains up to 2.5% fluorine (F) as an impurity. Chronic ingestion eg. improper or inadvertent use as a dietary phosphorus supplement for ruminants (cattle and sheep), may result in fluorosis.

TOXICOLOGICAL DATA: No LD50 data available for the product.

FIRST AID FACILITIES: N/A

ADVICE TO DOCTOR: Treat symptomatically.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS: No exposure limit has been assigned to this product. Where no specific exposure standard has been assigned, the recommended exposure standard for dust in general shall be 10 mg/m³ measured as inspirable dust. The exposure limit is expressed as a time weighted averaged (TWA) concentration over an 8 hour working shift, for a 5-day working week, and is the exposure standard recommended by the Worksafe Australia.

ENGINEERING CONTROLS: No special ventilation required.

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

FLAMMABILITY: Not flammable.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT:

Handling Advise: Avoid skin and eye contact and breathing dust.

Storage Advise: Store in a dry, cool, well ventilated place and out of direct sunlight. High stacking should be avoided, as pressure tends to promote caking. Store away from farm chemicals eg. Insecticides, fungicides and herbicides.

Road and Rail Transport: Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods (ADG Code) for transport by Road and Rail.

Marine Transport: Not classified as Dangerous Goods by the criteria of the International Air Transport Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport: Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

SPILLS AND DISPOSAL: Small spills can be swept up for re-use. Large spills (>100 kg), should be swept up and shovelled into suitable containers for reclamation. Add any broken packages to the container. Do not contaminate streams, rivers or watercourses.

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FIRE/EXPLOSION HAZARD: Not flammable. For fires involving this material: -

Decomposition may give rise to toxic and noxious fumes. Spray water on decomposing mass and fight fire upwind, if outdoors. In smoke or fumes wear self contained breathing apparatus. Do not use more water than is necessary and contain run-off. Advise Fire Brigade of the nature of the hazard.

FIRE-FIGHTING MEASURES

SPECIFIC HAZARDS: Non-Combustible material.

FIRE FIGHTING ADVICE: Non-Combustible material. Decomposes on heating emitting toxic fumes. Fire fighters are to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eye contact. Avoid breathing in dust. Work up winds or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust collect and seal in properly labelled containers, bags or drums for safe disposal or re-use.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS: No value is assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for constituent(s):

Nuisance dust: 8hr TWA = 10 mg/m³

As published by the National Occupational Health and Safety Commission.

TWA – The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to, as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

ENGINEERING CONTROL MEASURES: Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Keep containers closed when not in use.

PERSONAL PROTECTIVE EQUIPMENT: Orica Personal Protection Mask Guide No. 1, 1998: E-OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.

Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

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