

DATE OF ISSUE 27 November 2008

**BARMAC INDUSTRIES PTY LTD
3 MARY ST, BLACKSTONE Q 4304**

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BARMAC ZINC SULPHATE
PHONE: (07) 3280 3000
EMERGENCY AFTER HOURS NUMBER: (07) 3280 3000

Classified as hazardous by Worksafe Australia Criteria

IDENTIFICATION

OTHER NAMES: Zinc Sulphate Heptahydrate & monohydrate white vitrol; white copperas; zinc vitrol.

USES: An agricultural or hydroponic trace element, rayon manufacture, dietary supplement, animal feeds, mordant, wood preservative, analytical reagent.

UN NUMBER: N/A

HAZCHEM CODE: N/A

DANGEROUS GOODS CLASS: N/A

POISONS SCHEDULE: 6

SUBSIDIARY RISK: N/A

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE: Colourless to slight green solid, odourless.

FORMULA: ZnSO₄

FLASHPOINT (°C): N/A

BOILING POINT (°C): N/A

FLAMMABILITY LIMITS (%): N/A

VAPOUR PRESSURE (___): N/A

SOLUBILITY IN WATER (g/L): sol. g/l (25°C)

SPECIFIC GRAVITY: 2.0 (water = 1)

OTHER PROPERTIES

Specific gravity: 33 (monohydrate) and 2.0 (heptahydrate) solubility in water: 30% for monohydrate & 96.5% for heptahydrate.

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INGREDIENTS

<u>CHEMICAL ENTITY</u>	<u>CAS NO.</u>	<u>PROPORTION</u>
Zinc Sulphate Heptahydrate	[7799-02-0]	>98%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE:

SWALLOWED: Low toxicity. If ingested abdominal pain, nausea, vomiting and diarrhoea may occur, accompanied by irritation to the mouth and throat, shock and convulsions and possible complications including liver damage with jaundice, hypertension and renal failure. May lead to coma and death.

EYES: May irritate eyes.

SKIN: May irritate skin.

INHALED: Dust may be irritating. Coughing and sore throat may occur.

CHRONIC

Primary route of exposure is inhalation and skin and eye contact. No specific data for the product for chronic symptoms. The materials in this product are not considered to be carcinogenic by the Worksafe Australia lists (May 1995).

FIRST AID

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SWALLOWED: If swallowed and if more than 15 minutes from a hospital induce vomiting, preferably using Ipecac Syrup APF.

EYES: If in eyes, hold eyelids open, flood with water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting eyelids. Do not try and remove contact lenses if worn unless trained. Transport to a doctor or hospital immediately.

SKIN: If skin contact occurs remove contaminated clothing and footwear. Wash skin thoroughly with copious amounts of water and soap. If redness or blistering occurs seek medical attention.

INHALED: Removed from contaminated area. Lay victim down and keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation. Transport to a hospital or doctor immediately.

FIRST AID FACILITIES: Normal first aid facilities should be adequate. Keep an emergency supply of IPECAC Syrup APF on hand at all times. Ensure an eye bath and safety shower are available and ready to use.

ADVICE TO DOCTOR

Treat symptomatically based on judgement of doctor and individual reactions of patient.

TOXICITY DATA

Oral LD50	=	1891mg/kg (Mouse)
Oral TDLo	=	45mg/kg/7D (Human) ; 106mg/kg (Human)
Oral LDLo	=	2000mg/kg (Rabbit)

PRECAUTIONS FOR USE

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EXPOSURE STANDARDS: No exposure limit has been assigned to this material.

ENGINEERING CONTROLS: Use in adequate ventilation or control dust at point of generation.

PERSONAL PROTECTION: Wear elbow length PVC gloves, face shield or goggles and half face respirator with dust cartridge or canister.

FLAMMABILITY: Not flammable or combustible.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT: Store in closed original container, as cool as possible away from direct sunlight. Do not store near food or feed or other items intended for human consumption. Keep out of reach of children. Product is not defined as dangerous under Australian transport legislation. Avoid contact with incompatible materials.

SPILLS AND DISPOSAL: Stop leak if safe to do so sweep or vacuum spills and store in sealed container for disposal. Recycle containers wherever possible. Avoid breathing dust. Dispose of material at a land fill or other site approved by relevant authorities. After spills, wash area, preventing run off from entering drains or water courses. Launder all contaminated clothing before re-use. Clean up personnel should wear full protective clothing including breathing apparatus.

FIRE/EXPLOSION HAZARD: Product is non combustible but may decompose to give off toxic fumes of Sulphate and Zinc oxides. Fire fighters should wear self contained breathing apparatus. Do not allow run off to contaminate waterways. Hazardous polymerisation has not been known to occur. Avoid contact with incompatible materials such as strong acids and strong alkalis.

EXTINGUISHING MEDIA

Fire-fighters should wear full protective clothing including self-contained breathing apparatus. Use

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equipment/media appropriate to surrounding fire conditions.

RISK PHASES

R36/38 Irritating to skin and eyes.

SAFETY PHASES

S2 Keep out of reach of children.

S22 Do not breathe dust.

S25 Avoid contact with eyes.

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.
