

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 QUINTOZENE 750 FUNGICIDE

PHONE: (07) 3280 3000

EMERGENCY AFTER HOURS NUMBER: (07) 3280 3000

Classified as hazardous by Worksafe Australia Criteria

IDENTIFICATION

OTHER NAMES: Nil

USE: An agricultural fungicide.

UN NUMBER: N/A

HAZCHEM CODE: N/A

DANGEROUS GOODS CLASS: N/A

POISONS SCHEDULE: 5

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE: An off white to dark tan crystalline solid. Slight musty odour.

FLASHPOINT (°C): N/A

BOILING POINT (°C): 328°C

FLAMMABILITY LIMITS (%): N/A

VAPOUR PRESSURE (___): 5.98×10^{-5} (mm/Hg) @ 25°C

SOLUBILITY IN WATER (g/L): 0.39 mg/L @ 25°C

SPECIFIC GRAVITY: 0.5 g/mL (bulk density)

FREEZING/MELTING POINT: 143°C

DENSITY: 1.20 g/cm³ (packed)

VAPOUR DENSITY: Heavier than air

% VOLITILE BY VOLUME: N/A

SOLUBILITY (OTHER): This product is soluble in aromatic hydrocarbons, chlorinated hydrocarbons, ketones, and esters.

PARTITION COEFFICIENT (O/W): 1.0×10^5 (of PCNB)

pH: 4.0-5.2 (as slurry)

EVAPORATION RATE: N/A

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INGREDIENTS

<u>CHEMICAL ENTITY</u>	<u>CAS NO</u>	<u>PROPORTION</u>
Quintozene	82-68-8	75%
Inerts	N/A	25%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE: A person suffering from acute exposure to Quintozene may exhibit vomiting, hyperirritability, convulsions, conversion of hemoglobin to methemoglobin. Technical grade quintozene is a slight skin and eye irritant and may lead to contact dermatitis. Toxicology testing has shown quintozene is a skin sanitiser.

SWALLOWED: Product is slightly toxic.

EYES: May irritate eyes.

SKIN: May irritate skin.

INHALED: May irritate mucous membranes.

CHRONIC: Possible dermatitis.

FIRST AID

SWALLOWED: If swallowed and if more than 15 minutes from a hospital induce vomiting, preferably using Ipecac Syrup APF Nothing is to be given by mouth to an unconscious person. Seek medical advice immediately.

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EYES: If in eyes, flood with copious amounts of clear, cool running water for at least 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water and see a doctor. If there is a delay in getting medical attention rinse the eyes for at least another 15 minutes.

SKIN: If skin contact occurs remove contaminated clothing and wash skin thoroughly with soap and clean water. If a rash or any of the symptoms of acute exposure appear, contact a physician immediately.

INHALED: Remove victim to fresh air. If breathing has ceased, clear the victim's airways and start artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical advice.

FIRST AID FACILITIES: Keep an emergency supply of Ipecac Syrup APF on hand.

ADVICE TO DOCTOR: Contact Poisons Information Centre. No specific antidote known. Treat symptomatically.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS: No occupational exposure standards have been set for this product or its ingredients.

ENGINEERING CONTROLS: Ventilation should be sufficient to keep the exposure below the TLV.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: A properly FIT-TESTED– approved respirator fitted with

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organic vapour cartridges and dust filters is required when working with this product if the ventilation is insufficient to keep exposures below the TLV.

SKIN PROTECTION: Applicators and other handlers must wear long-sleeved shirt and long pants; waterproof gloves; and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining personal protection equipment (PPE). If no such instructions are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

EYE PROTECTION: Safety glasses with side shields should be used whenever hazardous chemicals are being handled.

FLAMMABILITY: This is a combustible solid that will support fire if it is preheated (NFPA rating = 0)

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT: Store product in it's original container in a cool, dry, locked place out of the reach of children and pets and away from direct sunlight. Keep container closed. Store away from food, feed, drink or any items intended for human or animal consumption.

SPILLS AND DISPOSAL: Spills should be swept or vacuumed and stored in sealed drums for disposal. Avoid contact or breathing dust. Personal protective equipment as outlined above should be utilised in cleaning up all spills. Product should be disposed of at a landfill or other site approved by appropriate local authority. Keep out of water sources. Dispose of containers by puncturing top, bottom and sides, then crush and bury in an approved landfill or by burying under at least 600mm of soil in non-crop, non-pasture area away from water sources or homes

FIRE/EXPLOSION HAZARD: No unusual fire or explosion hazards exist. If product is involved in a fire compounds of nitrogen and chloride may be given off.

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FLAMMABLE PROPERTIES

Flash Point:	Not applicable
Autoignition Temperature:	Not applicable
Flammable Limits:	
Lower flammable limit:	None
Upper flammable limit:	None
Flammability:	This is a combustible solid that will support fire if it is preheated (NFPA rating = 0)

EXPLOSIVEITY:

Mechanical Impact:	Not explosive
Static Discharge:	Will not occur

HAZARDOUS COMBUSTION PRODUCTS: This product may emit hazardous fumes of hydrogen chloride, carbon oxides, nitrogen oxides and unidentified organic compounds when it is heated excessively or burned. **WEAR SELF-CONTAINED BREATHING APPARATUS.**

EXTINGUISHING MEDIA: Water spray, dry chemical, foam, or carbon dioxide.

FIRE FIGHTING INSTRUCTIONS: Do not breathe fumes. Wear complete fire fighting gear, including protective gloves, eye protection and self-contained breathing apparatus. Wash clothing before re use.

OTHER POTENTIAL HEALTH EFFECTS: Laboratory studies have shown some carcinogenic effects and some developmental effects in laboratory animals. There is sufficient evidence that EPA (USA) has listed quintozone as a possible carcinogen (group C) and the IARC has listed quintozone a carcinogen (group 3, sufficient animal evidence). The European Union (EU) has determined that no cancer classification is warranted. Laboratory testing of quintozone has shown evidence of teratogenicity, mutagenicity, or of reproductive toxicity.

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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Dermatitis.

CARE SHOULD BE EXERCISED IN HANDLING QUINTOZENE AND ITS FORMULATIONS

STABILITY AND REACTIVITY

CHEMICAL STABILITY (Conditions to Avoid): This product is stable under normal storage and use conditions.

INCOMPATIBILITY: Strong bases will very slowly cause decomposition of quintozene.

TOXICOLOGICAL INFORMATION

INGESTION:	Oral LD50 (rat):	> 5050 mg/kg
DERMAL:	Skin LD50 (rabbit):	>2020 mg/kg
INHALATION:	Inhalation LC50 (rat):	> 6.49 mg/l (as an aerosol)
IRRITATION:	Eye irritation (rabbit):	Mild irritant (Toxic category III)
	Skin irritation (rabbit):	Slight irritant (Toxic category IV)
SENSITIZATION:	Skin sensitisation sensitiser (guinea pig)	
TERATOGENICITY:	No evidence of teratogenicity has been observed in laboratory testing.	
MUTAGENICITY:	No evidence of mutagenicity has been observed in animal testing.	
CARCINOGENICITY:	Quintozene has been listed EPA as a possible carcinogen (group C) and the IARC has listed quintozene a carcinogen (group 3, sufficient animal evidence). The European Union (EU) has determined that no cancer classification is warranted.	
REPRODUCTIVE TOXICITY:	No evidence of reproductive toxicity has been observed.	
TOXICOLOGICALLY SYNERGISTIC PRODUCTS:	No data available.	

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ECOLOGICAL INFORMATION

This pesticide is toxic to fish and aquatic organisms. Do not contaminate water when disposing of equipment wash waters. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply directly adjacent to potable water supplies.

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.
