

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 CHLORPYRIFOS G INSECTICIDE

PHONE: (07) 3280 3000

EMERGENCY AFTER HOURS NUMBER: (07) 3280 3000

Classified as hazardous by Worksafe Australia Criteria

IDENTIFICATION

OTHER NAMES: Nil

USE: A granular insecticide for the control of various pests in turf.

UN NUMBER: N/A

CLASS: N/A

HAZCHEM CODE: N/A

POISONS SCHEDULE: 5

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE: A tan coloured granule

FLASHPOINT (°C): N/A

BOILING POINT (°C): N/A

FLAMMABILITY LIMITS (%): N/A

VAPOUR PRESSURE (___): N/A

SOLUBILITY IN WATER (g/L): insoluble,

SPECIFIC GRAVITY: 1.1 g/mL (bulk density)

INGREDIENTS

CHEMICAL ENTITY

CAS NO

PROPORTION

Chlorpyrifos	2921-88-2	50g/Kg
Petroleum Solvents	63231-51-6 & 64742-4-8	<50g/Kg
Emulsifiers and inerts		900g/Kg

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HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE:

Chlorpyrifos is an organo-phosphate insecticide and will inhibit cholineesterase. Symptoms of overexposure to the active constituent may include headaches, dizziness, incoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhoea, sweating, constrictive pupils, blurred vision, salivation, tightness of the chest, excessive urination and convulsions.

SWALLOWED: The acute oral toxicity of the active constituent is high with reported LD₅₀ measurements for the active at 115 mg/Kg. Because of the low levels of active constituent in this product the risk of serious poisoning by ingestion is low.

EYES: May irritate eyes.

SKIN: The acute dermal toxicity for the active constituent is low and the formulation makes the risk of poisoning by this route very small. The product may cause some skin irritation after prolonged contact and will irritate broken skin.

INHALED: The risk of poisoning by dust inhalation is low but the dust will irritate the mucous membranes and cause sinuous discomfort. Prolonged exposure to the product may cause headaches and other discomfort as a result of the presence of petroleum solvents.

CHRONIC: Rats and mice which were administered the active ingredient in long term studies showed no increase in tumours compared to the control. Studies in rats and rabbits indicates that the active constituent does not cause birth defects or interfere with reproduction. There is no known evidence of genetic change or accumulation of the active constituent in the body.

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FIRST AID

SWALLOWED: If swallowed contact a doctor or Poisons Information Centre.

EYES: If in eyes hold eyelids open, flood with water for at least 15 minutes and see a doctor if irritation persists..

SKIN: Wash skin with soap and water..

INHALED: Remove victim to fresh air and seek medical advice if effects persist. If breathing difficulties become acute give oxygen.

ADVICE TO DOCTOR: Chlorpyrifos is a cholinesterase inhibitor. Atropine by injection or Atrovent/ipratropium by airway puffs are the desirable antidotes. Oximes such as 2 PAM/protopam may be therapeutic if used early but only in conjunction with atropine.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS: Time weighted average for chlorpyrifos is 0.2 mg/m³. Exposure standards for nuisance dusts should also be observed.

ENGINEERING CONTROLS: Use only in well ventilated areas.

PERSONAL PROTECTION: When using the product wear rubber gloves. Avoid breathing dust by using and appropriate dust mask. Wash hands after use.

FLAMMABILITY: Product is not highly flammable although the small amount of petroleum solvent will support short term combustion..

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SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT: Store in a cool dry place in sealed original containers away from direct sunlight. Store away from food, feed or any items intended for human or animal consumption. Keep out of reach of children. Product is not classified as a dangerous good under current transport regulations .

SPILLS AND DISPOSAL: Spills should be swept or vacuumed. Avoid breathing dust. Personal protective equipment as outlined above should be utilised in cleaning up all spills. The best method of disposal of spills is to use the product in accordance with the label directions. If this is not possible dispose of at an appropriate local authority landfill.

FIRE/EXPLOSION HAZARD: If involved in a fire the product may emit potentially harmful gases. Fire fighters should wear appropriate breathing apparatus and all non essential personal should be kept down wind.

OTHER INFORMATION

Chlorpyrifos is toxic to birds, fish and bees. The product should be irrigated immediately after use to move the granules from the surface to reduce the risk of poisoning to foraging birds. Do not apply in any manner which may result in the granules washing into waterways. Chlorpyrifos does not bioaccumulate in animal systems.

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.
