

## MATERIAL SAFETY DATA SHEET

Hazardous according to criteria of Worksafe Australia

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### COMPANY DETAILS

Date of Issue: September 2003  
MSDS No. FMC/ASTRO/2

**Company:** FMC (Chemicals) Pty Ltd.  
**Address:** Unit 6, 9 Archimedes Place, Murarrie, Qld 4172  
**Telephone Number:** 07 3908 9222 **Fax Number:** 07 3908 9221  
**Emergency Telephone Number:** 1800 033 111 (All hours - Australia wide)

### IDENTIFICATION

**Product Name:** **Astro Aerosol Residual Insecticide**

### Physical Description/Properties:

|                               |                     |                                 |   |
|-------------------------------|---------------------|---------------------------------|---|
| <b>Other Names:</b>           | Permethrin          | <b>Appearance:</b>              | Clear pale yellow liquid with mild aromatic odour.                                    |
| <b>Common Name:</b>           | Permethrin          | <b>Boiling point:</b>           | na  |
| <b>Shipping Name:</b>         | AEROSOLS            | <b>Specific Gravity:</b>        | 0.77 g/mL at 25°C.  |
| <b>UN Number:</b>             | 1950                | <b>Flashpoint (°C):</b>         | 32°C  |
| <b>Dangerous Goods Class:</b> | 2.1                 | <b>Flammability Limits (%):</b> | Not established.  |
| <b>Subsidiary Risk:</b>       | Not applicable (na) | <b>Solubility in Water:</b>     | Very low.   |
| <b>Packaging Group:</b>       | na                  | <b>Corrosive hazard:</b>        | Not known to be corrosive.  |
| <b>Hazchem Code:</b>          | 2YE                 | <b>Use:</b>                     | Aerosol insecticide for use against ants, cockroaches, fleas, spiders and silverfish. |
| <b>EPG:</b>                   | 2A1                 |                                 |   |
| <b>Poisons Schedule:</b>      | Not scheduled       |                                 |   |

### Ingredients:

| Chemical               | CAS Number | Proportion |
|------------------------|------------|------------|
| Permethrin 25:75       | 52645-53-1 | 1%         |
| Antioxidant            | 128-37-0   | <1%        |
| Paraffinic Hydrocarbon | 64771-72-8 | 10-30%     |
| Liquid Petroleum Gas   | mixture    | > 60%      |

### HEALTH HAZARD INFORMATION

Studies with laboratory animals have shown permethrin (the active ingredient in this product) to have low oral, dermal and inhalation toxicity. It is minimally irritating to the eyes and practically non-irritating to the skin. Permethrin is a skin sensitiser. Experience to date indicates that contact with permethrin may produce skin sensations such as numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours. Large doses of permethrin ingested by laboratory animals produced signs symptoms such as diarrhoea, salivation, tremors and intermittent convulsions. Overexposure of animals to permethrin via inhalation has also produced hyperactivity and hypersensitivity.

**Acute:**

**Swallowed:** Due to the high volatility of this product, this is unlikely to occur.

**Eye Contact:** Severely irritating to the eyes.

**Skin Contact:** Mildly irritating. Avoid contact with skin. Liquid contact can cause freezing of tissue, resulting in an injury similar to a thermal burn.

**Inhaled:** Inhalation of spray or vapour may produce respiratory irritation and can result in headaches, dizziness and possibly nausea. Excessive exposure may cause unconsciousness, or even death, due to asphyxiation.

**Chronic:** No human studies are available.

**FIRST AID**

**Swallowed:** If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, do NOT induce vomiting.

**Eyes:** Flush with water for at least 15 minutes. Seek urgent medical attention.

**Skin:** If on skin or clothing, remove any contaminated clothing at once, and wash skin thoroughly with soap and water. See a doctor if irritation persists.

**Inhaled:** Remove to fresh air. If breathing discomfort occurs, contact a medical doctor.

**ADVICE TO DOCTOR:**

The signs and symptoms of poisoning with permethrin are not very pronounced and are likely to consist of hypersensitivity type reactions. There is no specific antidote to permethrin. Symptomatic and supportive treatment is indicated.

**PRECAUTIONS FOR USE**

**Exposure Standards:** No exposure limit has been assigned by NOHSC Australia for this material, however the following standard may apply - Hydrocarbon Solvent, TWA 100 ppm.

**Engineering Controls:** General room ventilation is normally adequate. Substantial amounts of mist/vapour can be controlled with local exhaust ventilation.

**Personal Protection:**

Avoid contact with skin and eyes and do not inhale spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

**Flammability:** This product is highly flammable. DO NOT use in confined spaces. DO NOT use close to ignition sources.

### SAFE HANDLING INFORMATION

**Storage & Transport:**

Store in a cool, dry, well ventilated location. Avoid excess heat. Do not store for prolonged periods in direct sunlight. The product is classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail. UN 1950, Proper shipping name: AEROSOLS, class 2.1, no packaging group allocated, Hazchem 2YE.

**Spills and Disposal:** Eliminate all sources of ignition. In the case of spillage contain and absorb spilled material with absorbent material such as sand clay or cat litter and dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides.

*Dangerous to Fish:* Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

Do not puncture or incinerate can, even when empty. Recycle empty cans if a facility is available or place used can in household rubbish.

**Fire/Explosion Hazard:**

The product is highly flammable. Aerosol product. Container may rocket or explode in heat of fire. Fire will produce hydrogen chloride gas. Full protective clothing including breathing apparatus should be worn. Extinguish fire with foam/CO<sub>2</sub>/dry chemical. If using water prevent runoff from entering drains.

Fight fire from maximum distance or protected area. Cool and use caution when approaching containers.

### OTHER INFORMATION

No data is available on Astro Aerosol Residual Insecticide. The following information refers to Permethrin.

Permethrin 25:75 in corn oil acute oral rat LD<sub>50</sub> = 1479mg/kg. Permethrin is toxic to fish.

**CONTACT POINT:** The Manager, FMC (Chemicals) Pty Ltd., Murarrie, Brisbane Qld.  
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