

MATERIAL SAFETY DATA SHEET

Company Details

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Hazardous according to criteria of Worksafe Australia.

I IDENTIFICATION

Product Name: Farmoz Parathion-Methyl 500 EC Insecticide

Other Names: Proper Shipping Name is ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE

Product Code: None.

UN No: 3017

Hazchem Code: 3W

Dangerous Goods Class: 6.1 Toxic Substances.

Sub Risk Class: 3 Flammable liquids.

Packaging Group: II

Most EPGs may now be substituted by the Initial Emergency Response Guide, available from Standards Australia.

Poison Schedule: S7

Product Type: Insecticide in Emulsifiable Concentrate form.

Chemical Family: Organophosphorus pesticide.

Uses: Controls some pests in certain agricultural crops.

Physical appearance & Properties:

Appearance & Odour: Amber liquid. Distinct garlic odour.

Melting/softening point: Liquid at normal temperatures.

Boiling point and vapour pressure: 109°C, 100kPa

Volatile materials: 50%

Flashpoint: 31°C

Specific gravity: 1.063

Solubility in water: Readily emulsifies.

Corrosiveness: Not corrosive.

Ingredients:

Chemical entity	CAS No	Proportion %	Worksafe Exposure Limits	
			TWA mg/m ³	STEL mg/m ³
Parathion-Methyl	298-00-0	50	0.2	not set
Xylene	1330-20-7	36	350	655
Ingredients determined not to be hazardous	secret	to 100	not set	not set

This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely.

II HEALTH HAZARD DATA

Health Effects:

No specific data is available for the product for chronic exposure symptoms. This product is not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

Acute Effects:

Very dangerous, particularly the concentrate. Product and spray is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. The first symptoms of poisoning are loss of appetite, headaches, exhaustion, weakness and confusion. These effects may be experienced during exposure or up to 24 hours later. Vomiting, cramp-like abdominal pains, excessive cold, sweating and salivation may follow. The pupils of the eyes are small and tightness in the chest with difficulty in breathing may be experienced. The pulse rate may become slow (up to 30-40 per minute). There may be twitching of the certain muscles, particularly of the face and tongue. In severe cases, convulsions and unconsciousness can occur. Death may follow.

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Eye: Data suggests that this product should be classified as moderately irritating to the eyes.

Skin: Data suggests that the product should be classified as very irritating to the skin and toxic by skin absorption. May cause skin corrosion and burning if contacted areas are not treated promptly

Inhalation: Data suggests that the product should be considered to be toxic by inhalation. May cause coughing and chest discomfort.

Primary route of exposure is inhalation and skin and eye contact.

Parathion-Methyl LD₅₀ Oral (Rat) = 14-24mg/kg

First Aid:

If poisoning or irritation occurs, contact a Doctor or Poisons Information Centre.

If swallowed, give one atropine tablet every 5 minutes until dryness of mouth occurs - if poisoned by skin absorption or through lungs, remove any contaminated clothing, wash skin thoroughly and give atropine tablets as above. Get to a doctor or hospital quickly.

Eye: If this product comes into contact with eyes, hold eyes open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting eyelids. Do not attempt to remove contact lenses unless trained. Transport to hospital or doctor immediately if eye irritation develops.

Skin: If this product comes into contact with skin, wash skin for at least 15 minutes with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again.

Inhalation: If mists or combustion products are inhaled, remove to fresh air. Lay victim down & keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Eye wash stations or baths should be available where product is being used.

Deluge showers should be provided where this product is being used

Advice to doctor: Atropine is the antidote of choice with the supplementary use of an oxime preparation such as TOXOGONIN or PAM. Inject 2 to 4 mg of atropine sulfate (for children 0.2 to 2mg according to weight) iv or im every 5 to 10 minutes until signs of atropinisation occur. The patient should remain atropinised for a sufficient length of time (24-48 hours) to prevent subsequent reabsorption.

.III PRECAUTIONS FOR USE

Risk Phrases are: R24, R28. Toxic in contact with skin. Very toxic if swallowed.

Exposure Standards:

A TWA value of 0.2 and a STEL value of not set has been established for Parathion-Methyl. Values expressed as mg/m³. Exposure values at the STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. See ingredients section on page 1 of this data sheet. The ADI (Acceptable Daily Intake) for methyl parathion is set at 0.03mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 0.3mg/kg/day. Values taken from Australian ADI List, May 1995.

Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection:

Obtain an emergency supply of atropine tablets 0.6mg.

When opening the container and preparing spray or using the prepared spray, wear protective waterproof clothing, cotton overalls buttoned to the neck and wrist, a washable hat, elbow length PVC gloves, impervious footwear and full-face respirator with combined dust and gas cartridge or canister. If clothing becomes contaminated with product or wet with spray remove clothing immediately. If product gets on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, respirator or face piece and contaminated clothing.

IV SAFE HANDLING INFORMATION

Storage & Transport:

This product is classed as UN3017, Dangerous Goods Class 6.1 Toxic Substances. Proper Shipping name is ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE. Class 6 Toxic Substances shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 3 (Flammable

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Liquids where the Flammable Liquid is nitromethane), 5.1 (Oxidising Agents where the Toxic Substances are Fire Risk Substances), 5.2 (Organic Peroxides where the Toxic Substances are Fire Risk Substances), 8 (Corrosive Substances where the Toxic Substances are cyanides and the Corrosives are acids), Foodstuffs and foodstuff empties. They may however be loaded in the same vehicle or packed in the same freight container with Classes, 2.1 (Flammable Gases), 2.2 (Non-Flammable, Non-Toxic Gases), 2.3 (Toxic Gases), 3 (Flammable liquids, except where the flammable liquid is nitromethane), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents except where the Toxic Substances are Fire Risk Substances), 5.2 (Organic Peroxides except where the Toxic Substances are Fire Risk Substances), 7 (Radioactive Substances), 8 (Corrosive Substances except where the Toxic Substances are cyanides and the Corrosives are acids), 9 (Miscellaneous Dangerous Goods)

This material is classed as a S7 Poison. Observe appropriate state regulations for storage, transport and sale. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not come into contact with water or acids.

Spills and disposals:

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Wear full protective chemically resistant clothing including face mask, face shield, gauntlets and self contained breathing apparatus. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Fire/Explosion Hazard:

There is no explosion hazard from this material under normal circumstances.

Flashpoint: 31°C

Flammability Limits: No data

Extinguishing Media: carbon dioxide, dry chemical, foam, water fog. Foam is the preferred medium for large fires.

Special Fire Fighting procedures: If a significant quantity of this product is involved in a fire, call the fire brigade.

When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and self contained breathing apparatus. All skin areas should be covered. Ensure that no spillage enters drains or water courses.

Unusual fire & Explosion hazards: Decomposition products are toxic and corrosive. There is a significant risk of an explosion from this product if involved in a fire. Heat may cause violent rupture of containers if involved in a fire.

Stability: Stable.

Polymerisation: Will not polymerise.

Decomposition Products: carbon dioxide, carbon monoxide, nitrogen oxides, oxides of sulfur, oxides of phosphorus, water.

Materials to avoid: Strong acids, strong alkalis, strong oxidising agents.

V OTHER INFORMATION

Pesticides of this type affect the body's nerve functions and inhibit normal function. The inability of the brain to send and receive messages results in muscle twitching and weakness which may be referred to as tremors or fibrillations. Later these symptoms may lead to intense muscular action and then convulsions which are uncontrolled muscular spasms or fits. Even though the casualty may be near to death, if proper treatment is given quickly and continued for a long enough period, he may well recover fully.

It would be prudent to keep a supply of atropine tablets 0.6mg near to where the product is being used.

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

Contact Points:

Call Farmoz on (02)9363 3611

Fax: (02)9363 5977

Ask for Russel Brown, Technical Manager.

Police and Fire Brigade:

Dial 000

If ineffective:

Dial Poisons Information Centre

(13 1126 from anywhere in Australia)

The information contained in this Material Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Farmoz Pty Ltd makes no representation as to the accuracy or

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comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, for any loss or damage arising from or connection with the supply or use of the information in this Material Safety Data Sheet.

Please read all labels carefully before using product.

Prepared by Kilford & Kilford Pty Ltd, July, 1998

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Acknowledgments:

Collated by HerbiGuide. Phone 08 98444064 for more information.