

WELLFARM CHLORPYRIFOS 500 EC INSECTICIDE

APVMA Product No: 70266**Poison Schedule:** 6**Emergency Telephone Number:**

The Australian Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia)

Specialist Advice In An Emergency Only 1800 033 111 All Hours Australia Wide

In A Transport Emergency Dial 000 Police Or Fire Brigade

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company: Wellfarm Pty Ltd
Website: www.wellfarm.com.au
Email: info@wellfarm.com.au
Postal Address: 22 Calypso Crescent, Point Cook, Vic 3030

Product Name: WELLFARM CHLORPYRIFOS 500 EC INSECTICIDE
Product Type: Group 1B Insecticide
Formulation Type: Emulsifiable Concentrate
Product Use: Agricultural Insecticide

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Chlorpyrifos	2921-88-2	50%
Emulsifiers and inerts		10%-20%
Liquid hydrocarbon solvent		47.4%

3. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Classified as hazardous according to the criteria of Safe Work Australia.

Hazards	T - Toxic N - Dangerous for the Environment
Risk Phrases	R24/25 - Toxic in contact with skin and if swallowed. R50 - Very toxic to aquatic organisms. R53 - May cause long-term adverse effects in the aquatic environment.
Safety Phrases	S 1/2 - Keep locked up and out of the reach of children. S28 - After contact with skin, wash immediately with plenty of water. S36/37 - Wear suitable protective clothing and gloves S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S60 - This material and its container must be disposed of as hazardous waste.

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S61 - Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

4. FIRST AID MEASURES

Inhalation	If inhaled remove victim to fresh air. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult. If poisoning has occurred, administer atropine tablets as below. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Seek immediate medical attention.
Ingestion	Induce vomiting using Ipecac Syrup APF and give one atropine tablet every five minutes until dryness of the mouth occurs. Do not give fluids or induce vomiting if victim is convulsing or unconscious. Seek immediate medical attention.
Skin	If skin or hair contact occurs, immediately remove contaminated clothing and wash skin and hair with running water for at least 15 minutes. If symptoms of poisoning occur, administer atropine tablets as above. Seek immediate medical attention.
Eyes	Laundry protective clothing before storage or re-use. If in eyes, hold eyelids apart and flush the eye continuously with large amounts of water for at least 15 minutes. Do not try to remove contact lenses. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.

Suitable Extinguishing Media	Foam, carbon dioxide and dry chemical. Fine water spray or water fog is the preferred media for large fires.
Hazardous Combustion Products	Carbon dioxide, carbon monoxide (if combustion is incomplete) and smoke, nitrogen and under some circumstances oxides of nitrogen, oxides of sulphur and oxides of phosphorus.
Firefighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	Combustible liquid – C1 There is a moderate risk of an explosion if this product is involved in fire. Overheating may cause drums to explode. Cool containers with a fine water spray.
Hazchem Code	·2X

6. ACCIDENTAL RELEASE MEASURES

Spills	Clear the area of all unprotected personnel. Wear full protective equipment including breathing apparatus. Shut off sources of ignition. Isolate leaking containers and if safe to do so, stop the leak by manoeuvring the drum. Decant the leaking container into a clean empty drum and label. Contain spilled material with sand, clay, earth or other non-combustible material. Sweep up material when absorption is completed and transfer contaminated materials to open top containers for disposal. Scatter lime over the affected area and leave for one hour then shovel into drum and wash the area with a minimal amount of water. Ensure run off does not contaminate drains, sewers, streams, rivers or water courses. Laundry protective clothing before storage or re-use.
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7. HANDLING AND STORAGE

Handling	Exercise normal care in handling. Avoid unnecessary skin and eye contact.
storage	Store in the tightly closed, original container in a dry, well ventilated area, out of direct sunlight. Do not store with food, feedstuffs, fertilizers and seeds. Make sure that the product does not come into contact with heat sources, naked flames or sparks and strong oxidising agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)	Chlorpyrifos: TWA: - ppm / 0.2 (skin) STEL: - ppm / - mg/m ³
Engineering Controls	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.
Respiratory Protection	Use a Safe Work Australia approved full face supplied air respirator if high airborne concentrations of the material are present. See Australian Standards AS/NZS 1715 and 1716 for more information.
Eye Protection	Safety glasses with top and side. See Australian Standards AS 1336 and AS/NZS 1337 for more information.
Skin Protection	Wear protective gloves and protective clothing appropriate for the risk of exposure. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information.
Hygienic Practices	Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Straw coloured liquid
Odour	Solvent odour
Solubility in water	Emulsifiable
Solubility in Organic Solvents	Soluble in aromatic and chlorinated hydrocarbons; moderately soluble in diesel, kerosene and mineral oils.
Boiling Point	>178°C
Freezing Melting Point	No information available.
Vapour Pressure	<0.074 kPa @ 20°C
Vapour Density (Air = 1)	No information available.
Specific Gravity	1.05 – 1.10 @ 20°C
Volatility (% by weight)	<48% w/v
Flash Point	>63°C
Flammable Limit – Lower	No information available.
Flammable Limit – Upper	No information available.
Evaporation Rate (Butyl acetate = 1)	<0.06

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and use.
Incompatible Materials	Strong oxidising agents.

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Hazardous Decomposition products	Carbon dioxide, carbon monoxide (if combustion is incomplete) and smoke, nitrogen and under some circumstances oxides of nitrogen, oxides of sulphur and oxides of phosphorus.
Hazardous Polymerization Conditions to Avoid	Will not occur. No information available.

11. TOXICOLOGICAL INFORMATION

Toxicity	Chlorpyrifos: Acute oral LD50(rat) = 95 to 270 mg/kg Acute oral LD50 (mice) = 60 mg/kg Acute oral LD50 (rabbit) = 1000mg/kg Acute dermal LD50(rat) > 2000 mg/kg Acute dermal LD50 (rabbit) = 1000 to 2000 mg/kg Acute inhalation LC50 (rat) > 0.2 mg/L /4 hours Reproductive Effects: No reproductive toxicity. Teratogenic Effects: No teratogenic effects. Mutagenic Effects: No evidence of mutagenicity. Carcinogenic Effects: No evidence of carcinogenicity.
Routes of Exposure	Inhalation, ingestion, eye and skin
Acute Health Effects	Inhalation: Excessive exposure to spray mist may be harmful. Symptoms that may occur if this product is mishandled include excessive sweating, salivation, headache, weakness, giddiness, nausea, stomach pain, blurred vision, muscle twitching, incoordination, tremors, diarrhoea, constricted pupils, chest tightness, excessive urination and convulsions.
	Ingestion: Ingestion of the concentrate may cause injury or death. If product enters the lungs, solvent may cause chemical pneumonia and permanent damage.
	Eye: Will cause temporary moderate eye irritation
	Skin: Acute toxicity is low with short term skin contact.
Chronic Health Effects	Prolonged exposure to the solvent vapour from the undiluted product may cause eye and respiratory tract irritation, headache, dizziness and narcotic effects. Repeated minor exposure may have a cumulative poisoning effect and may cause allergic disorders.
Existing Conditions Aggravated by Exposure	No information available.
Carcinogenicity	This product does NOT contain any IARC listed chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Aquatic Organisms: LC50 96hr (Rainbow trout) = 0.009 mg/L LC50 96hr (Bluegill) = 0.01 mg/L LC50 96hr (Fathead minnow) = 0.331 mg/L Chlorpyrifos is highly toxic to bees, birds and fish. It is moderately toxic to pets and livestock and has low toxicity to earthworms. Chlorpyrifos does not accumulate in animals. Chlorpyrifos is non-systemic in plants and is not absorbed from soil via the roots.
Mobility	When used as a termiticide, the half-life of chlorpyrifos in soil is at least four months. Chlorpyrifos binds strongly to soil particles and organic matter and does not leach. Degradation is by microbial action, hydrolysis and volatilisation. Rate of degradation

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depends on a variety of factors including soil type, climatic conditions, pH and exposure to sunlight. In water, chlorpyrifos is hydrolysed to a pyridinol compound, not thought to be hazardous, which subsequently breaks down to carbon dioxide and simple organic compounds. Rate of hydrolysis increases with pH.

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers	Dispose according to applicable local and state government regulations. Instructions concerning the disposal of this product and its containers are given on the product label.
Special precautions for landfill or incineration	Please consult your state Land Waste Management Authority for more information

14. TRANSPORT INFORMATION

Classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail (ADG7).

UN Number	3018
Proper Shipping Name	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, N.O.S.
Dangerous Goods Class	6.1
Subsidiary Risk	Not applicable
Hazchem Code	2X
Packing Group	III
Special Precautions	Not applicable

15. REGULATORY INFORMATION

Chlorpyrifos is listed in the Australian Inventory of Chemical Substances (AICS).
SUSDP Classification: 6

16. OTHER INFORMATION

All information contained in this document is as accurate as possible based on information submitted by raw material suppliers. Wellfarm Pty Ltd will NOT be responsible for any damages that may result from reliance on the information contained herein.

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