

Section 1 - Identification of the Material and Supplier

Product Name:	Swan Chlorpyrifos 500 Insecticide
APVMA Approval No.:	96274
Chemical Nature:	Emulsifiable Concentrate (EC) containing chlorpyrifos
Product Use:	Agricultural insecticide for use as described on the product label
Company:	Swan Chemical Holdings Pty Ltd U2/9 Glossop Street, Wangara WA 6065 Phone: 1300 289 520 info@swanchemicalholdings.com swanchemicalholdings.com
Creation Date:	September 2025
Poisons Information Centre:	Phone 13 11 26 from anywhere in Australia

Section 2 - Hazards Identification

Hazardous Nature

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

GHS Classification

Flammable liquids, Category 4
Acute Toxicity, Category 4 (oral)
Serious eye damage / eye irritation Category 1
Aspiration hazard, Category 1
Carcinogenicity, Category
Acute aquatic toxicity, Category 1
Chronic aquatic toxicity, Category 1

Hazard Statements

H227 Combustible liquid.
H302+H312 Harmful if swallowed or in contact with skin.
H318 Causes serious eye damage.
H304 May be fatal if swallowed and enters airways.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects



Signal Word

DANGER

Precautionary Statements

Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves, protective clothing, eye protection/ and face protection.
P273 Avoid release to the environment.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE/ doctor.
P321 Specific treatment (see on this label). P312 Call a POISON CENTRE/doctor if you feel unwell.

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P330 Rinse mouth. P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P352 +P358 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391 Collect spillage.
P361+P364 Take off immediately all contaminated clothing and wash it before reuse
P370+P378 In case of fire: Use for extinction CO₂, powder or water spray.
P405 Store locked up. P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national regulations.
P405 Store locked up.

Section 3 - Composition/Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

2921-88-2 chlorpyrifos (ISO) Acute Tox. (Oral) 3, H301; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 50%

64742-95-6 Solvent naphtha (petroleum), light aromatic Asp. Tox. 1, H304; Flam. Liq. 4, H227 40%

Section 4 - First Aid Measures

General Advice: First Aid responders should ensure their own safety and use the recommended protective clothing (chemical resistant gloves and splash protection). If the potential for exposure exists, wear PPE as specified in Section 8.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause symptoms similar to ingestion.

Skin Contact: May cause symptoms similar to ingestion.

Eye Contact: May cause eye irritation, stinging, reddening and watering.

Ingestion: Toxic if swallowed. May cause numbness, tingling sensations, incoordination, headache, dizziness, nausea, abdominal cramps, excessive sweating and salivation, blurred vision, respiratory depression, unconsciousness, incontinence, convulsions, fatigue, slowed heart rate, seizures and possible fatality.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media:

Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, nitrogen, sulphur and phosphorous, nitrogen compounds, hydrogen cyanide, sulphur compounds, phosphorous compounds, hydrogen chloride, other chlorine compounds, smoke and water. Product is combustible.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

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Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. If absorbent material is not available or spill is too large, create a dike to stop spill from spreading. Collect the spilled material and place into a suitable container for disposal.

Section 7 - Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area. 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.

Conditions for Safe Storage:

Store in a cool, dry and well-ventilated area. Keep in original container tightly closed when not in use. Protect from heat, sparks, open flames, hot surfaces and direct sunlight. Keep away from strong oxidising agents, strong acids and strong bases.

Section 8 - Exposure Controls and Personal Protection

Exposure Standards:

CAS: 2921-88-2 Chlorpyrifos (ISO) NES TWA: 0.2 mg/m³ sk

Engineering Controls:

Ensure adequate ventilation of the working area.

Respiratory Protection:

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

PVC or rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered. Occupational protective clothing (depending on conditions in which it must be used, in particular as regards the period for which it is worn, which shall be determined based on the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

Section 9 - Physical and Chemical Properties:

Appearance:	Straw Coloured liquid
Odour:	Characteristic hydrocarbon
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	>112 °C
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	>62 °C
Flammability:	Combustible
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available

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Vapour Pressure:	No information available
Relative Density at 20 °C:	1.05-1.10 (expected)
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Emulsifies into water
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available
Poisons Schedule:	This product is a Schedule 6 (S6) poison
Formulation Type:	Emulsifiable Concentrate (EC)

Section 10 - Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.

Incompatible Materials: Strong oxidising agents, strong acids and strong bases.

Hazardous Decomposition Products: Oxides of carbon, nitrogen, sulphur and phosphorous, nitrogen compounds, hydrogen cyanide, sulphur compounds, phosphorous compounds, hydrogen chloride, other chlorine compounds, smoke and water.

Section 11 - Toxicological Information

Toxicity Data

LD50/LC50 Values Relevant for Classification:

2921-88-2 chlorpyrifos (ISO)
Oral LD50: 135 mg/kg (rat)
Dermal LD50: 202 mg/kg (rat)
64742-95-6 Solvent naphtha (petroleum), light aromatic
Oral LD50: >6800 mg/kg (rat)
Dermal LD50: >3400 mg/kg (rabbit)
Inhalation LC50/4 hr: >10.2 mg/l (rat)

Acute Health Effects

Inhalation: May cause symptoms similar to ingestion.

Skin: May cause symptoms similar to ingestion.

Eye: May cause eye irritation, stinging, reddening and watering.

Ingestion: Toxic if swallowed. May cause numbness, tingling sensations, incoordination, headache, dizziness, nausea, abdominal cramps, excessive sweating and salivation, blurred vision, respiratory depression, unconsciousness, incontinence, convulsions, fatigue, slowed heart rate, seizures and possible fatality.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure: Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: Repeated or prolonged exposure to organophosphates may result in the same effects as acute exposure including the delayed symptoms. Other effects reported in workers repeatedly exposed include impaired memory and concentration, disorientation, severe depressions, irritability, confusion, headache, speech difficulties, delayed reaction times, nightmares, sleepwalking, and drowsiness or insomnia.

Existing Conditions Aggravated by Exposure: No information available.

Additional toxicological information: The Australian Acceptable Daily Intake (ADI) for chlorpyrifos for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.03 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2020).

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Chlorpyrifos primarily affects the nervous system through inhibition of cholinesterase, an enzyme required for proper nerve functioning. Chlorpyrifos is readily absorbed into the bloodstream through the gastrointestinal tract if it is ingested, through the lungs if it is inhaled, or through the skin if there is dermal exposure. In humans, chlorpyrifos and its principal metabolites are eliminated rapidly.

Section 12 - Ecological Information

Ecotoxicity: Serious hazard to wildlife and bees.

Aquatic toxicity: Very Toxic to aquatic life with long lasting effects.

Persistence and Degradability: Persistent in soils. Half-life in soil normally ranges from 60 to 120 days, though may be as long as a year, depending on soil type.

Bio-accumulative Potential: No information available.

Mobility in Soil: Due to relatively low solubility and strong potential to adsorb to soil, chlorpyrifos is immobile in soils.

Other adverse effects: No information available.

Section 13 - Disposal Considerations

Safe Handling And Disposal Methods

Recover or recycle if possible. Refer to local waste management authority for other approved methods. Empty containers should be decontaminated by rinsing with water prior to disposal or recycling. Product must be contained and not disposed of in sewerage systems, drains or waterways. Advise combustible nature.

Disposal Of Contaminated Packaging

Empty packaging should be disposed of in accordance with local, state, and federal regulations or recycled/reconditioned at an approved facility.

Environmental Regulations

Dispose of in accordance with relevant local, state and federal legislation.

Disposal Methods and Containers:

Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

Section 14 - Transport Information

UN Number

ADG, IMDG, IATA

UN3018

Proper Shipping Name ADG, IATA

ORGANOPHOSPHEROUS PESTICIDES, LIQUID TOXIC, (chlorpyrifos (ISO)) IMDG
ORGANOPHOSPHEROUS PESTICIDES, LIQUID TOXIC, (chlorpyrifos (ISO)), MARINE POLLUTANT

Dangerous Goods Class ADG Class:

6.1 Toxic substances

Packing Group: ADG, IMDG, IATA

III

Marine pollutant:

Yes Symbol (fish and tree)

EMS Number:

F-A,S-A

Hazchem Code:

2X

Special Provisions:

61, 223, 274

Limited Quantities:

5L

Packaging & IBCs - Packing Instruction:

P001, IBC03, LP01

Portable Tanks & Bulk Containers - Instructions: T7

Portable Tanks & Bulk Containers - Special Provisions: TP2, TP28

Section 15 - Regulatory Information

Australian Inventory of Chemical Substances: CAS No.: 2921-88-2 Chlorpyrifos (ISO)

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

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ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

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