

SAFETY DATA SHEET

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

RICHGRO GARDEN PRODUCTS

203 Acourt Road
Jandakot, Western Australia 6164

EMERGENCY PHONE NUMBER: (08) 1800 455 132 Monday to Friday 9am to 5pm

POISONS INFORMATION CENTRE: Phone (e.g. Australia 13 11 26; New Zealand 0800 764 766).

TELEPHONE: (08) 6258 7100 (office hours)

FACSIMILE: (08) 9455 1297 Free Fax: 1800 455 132

EMAIL: customerservice@richgro.com.au

PRODUCT NAME**RECOMMENDED USE:**

Richgro Termite & Ant Killer Concentrate

Insecticide for domestic use

SECTION 2 - HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA
CLASSIFIED AS DANGEROUS GOOD – CLASS 9 MISCELLANEOUS.
SCHEDULED S5 POISON.

PHYSICAL HAZARDS:

Flammable Liquids Category 4

HEALTH HAZARDS:

Aspiration Hazard Category 1

ENVIRONMENTAL HAZARDS: Hazardous to aquatic environment Short term/Acute Category 2

Label elements

GHS Signal Word:

DANGER

**HAZARD STATEMENT:**

H225: Combustible Liquid

H304: May be fatal if swallowed and enters airways.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H401: Toxic to aquatic life

PREVENTION

P102: Keep out of reach of children

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

P273: Avoid release to the environment

RESPONSE

P363: Wash contaminated clothing before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

STORAGE

P402+P404: Store in a closed container, in a dry place.

DISPOSAL

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in household waste for landfill. For larger quantities that cannot be recycled, dispose of contents and container to approved landfill (see Section 13 of this SDS).

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS Number	Concentration
Liquid hydrocarbon	64742-94-5	779g/L
Permethrin (25:75 cis:trans)	52645-53-1	100g/L
Non-hazardous ingredients	confidential	balance

SECTION 4 - FIRST AID MEASURES

GENERAL INFORMATION: If in doubt, get medical attention promptly. Show this Safety Data Sheet to medical personnel.

EYES: Hold eyelids open and rinse the eye continuously with a gentle stream of clean running water for at least fifteen minutes. Seek medical attention.

SKIN: Remove contaminated clothing and wash thoroughly with soap and water. Use water alone, if soap is unavailable. Apply a moisturising hand cream, if available. Seek medical attention if any soreness or inflammation of the skin persists or develops later. Launder affected clothing before re-use.

INGESTION: Rinse mouth out with water ensuring that mouth wash is not swallowed. Give about 250mL (2 glasses) of water to drink. DO NOT attempt to induce vomiting. Seek medical attention.

INHALATION: First aid is unlikely to be required as a result of exposure during normal use but if symptoms occur, remove to fresh air. Keep warm and at rest. Seek medical attention if symptoms persist.

Additional Information:

First Aid Facilities: Not required.

Advice to Doctor: Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Combustible Liquid.

SUITABLE EXTINGUISHING MEDIA: Foam, dry chemical powder (bicarbonate or ammonium phosphate based) or carbon dioxide are all suitable. Do not use high volume water jets, as this may spread the fire.

HAZARDS FROM COMBUSTION PRODUCTS: Gives off irritating or toxic fumes (or gases) in a fire.

PROTECTIVE EQUIPMENT: Fire fighters should wear self-contained breathing apparatus. Keep containers as cool as possible by spraying with water from a protected position.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Wear protective equipment as specified for handling (See Section 8). Additionally firefighters and emergency responders should wear self-contained breathing apparatus

SPILLS: Product is sold in small containers, so spills are unlikely to require special treatment. Cover with an absorbent such as vermiculite, sand or soil. Sweep up and dispose to waste for landfill.

SECTION 7 - HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS: Avoid eye and skin contact. Avoid breathing vapours or mists.

SAFE STORAGE PRECAUTIONS: Keep out of reach of children. No special storage precautions required but storage below 30°C is recommended. Product life will be maximised if it is stored out of direct sunlight in a cool well ventilated area.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE STANDARDS:

Pyrethrins: E.S. TWA: 5mg/m³

Exposure standards represent the airborne concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. The exposure standard can be of three forms; time-weighted average (TWA), peak, or short term exposure limit (STEL).

BIOLOGICAL LIMIT VALUES: None allocated

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ENGINEERING CONTROLS: None required for domestic use of this product. If handling bulk product, work area should have good, mechanical ventilation. Local exhaust ventilation is unlikely to be required for foreseeable uses of this product.

PERSONAL PROTECTION: Requirements depend on working conditions, method of application and quantity of product in use. No special equipment is required for handling small quantities but safety glasses or goggles must be worn if there is any potential for eye contact. Nitrile, neoprene, PVC or natural rubber gloves should be worn if there is any potential for skin contact.

Respiratory protection is unlikely to be required for foreseeable uses of this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & colour:	Liquid
Odour:	Typical solvent odour
Boiling Point:	Solvent boils in the range of 190 - 280°C
Freezing Point:	No data available. Liquid at normal ambient temperature
Volatiles:	Negligible
Vapour Pressure:	No data available
Vapour Density:	Heavier than air
Specific Gravity:	1.05-1.10 at 20°C
Water Solubility:	Emulsifiable
pH:	No data available
Volatility:	Negligible
Evaporation Rate:	Negligible
Auto ignition temp:	No data available
Flash point:	>61°C (approximately 75°C based on the hydrocarbon solvent)
Upper Flammability Limit:	7% (hydrocarbon solvent)
Lower Flammability Limit:	0.6% (hydrocarbon solvent)
Flammability Class:	Combustible liquid

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use and storage

CONDITIONS TO AVOID: This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry. Protect this product from light.

INCOMPATIBLE MATERIALS: Strong acids, strong bases, strong oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Will evolve toxic fumes, including oxides of sulphur, nitrogen and carbon, if burned in a fire situation.

HAZARDOUS REACTIONS: None known.

POLYMERISATION: This product will not undergo polymerisation reactions.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE - SWALLOWED: Possible irritation of gastro-intestinal tract. Significant oral exposure is considered to be unlikely. Because of the low viscosity of this product, it may directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs, it is very difficult to remove and can cause severe injury or death.

ACUTE – EYE: Severely irritating. Contact may cause redness.

ACUTE – SKIN: Slightly irritating in case of skin contact. Prolonged or repeated skin contact may result in skin sensitisation and dermatitis in sensitive individuals.

ACUTE – INHALED: Product does not evaporate readily but inhalation of spray mists may result in irritation of the respiratory system. Inhalation is not anticipated as a result of normal use.

TOXICITY:

CHRONIC HEALTH EFFECTS PYRETHRIN

No specific target organ toxicity has been identified.

Acute oral toxicity LD50: 260 mg/kg rat

Not listed as a carcinogen by Safe Work Australia, the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the National Institute for Occupational Safety and Health (NIOSH), or the Occupational Health and Safety Administration (OSHA).

No additional data available

SECTION 12 - ECOLOGICAL INFORMATION

Pyrethrin is harmful to aquatic organisms and toxic to bees. This product is biodegradable. It will not accumulate in the soil or water or cause long term

BIODEGRADABILITY: This product is biodegradable. It will not accumulate in the soil or water or cause long term harm.

BIOACCUMULATION: Potential for bio concentration in aquatic organisms is low.

MOBILITY: Pyrethrin does not move in soils with large amounts of organic matter, clay and silt. It also has a low mobility in sandy soils that are low in organic matter. It is relatively insoluble in water, so there are no concerns about groundwater contamination through leaching.

Breakdown in soil and groundwater: Biodegradation is expected to be the primary fate process for aliphatic hydrocarbons in soil and water. The rate and extent of biodegradation are dependent on the ambient temperature, the presence of a sufficient number of microorganisms capable of metabolizing the hydrocarbons.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose of small quantities and empty containers by wrapping with paper and putting in household waste for landfill. For larger quantities that cannot be recycled, dispose of contents and container to approved landfill. Do not allow to enter waterways.

SECTION 14 - TRANSPORT INFORMATION

This product is not a dangerous good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code),

SECTION 15 - REGULATORY INFORMATION

Product is a Schedule S5 Poison (based on the hydrocarbon content)

All ingredients in this formulation are listed in the Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme (NICNAS).

SECTION 16 - OTHER INFORMATION

1. National Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals, 2011
2. Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003(1995)] and subsequent amendments
3. Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), 7.7th Edition, 2020 (Edition 7.8 may be applied from 01 April 2023)
4. Standard for the Uniform Scheduling of Medicines and Poisons No. 37 (October 2022) and subsequent amendments

ABBREVIATIONS

BOD	Biological oxygen demand
CAS number	Chemical Abstracts Service Registry Number
EC50	Half maximal effective concentration
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
LDLo	Lowest documented lethal dose
LD50	Lethal Dose for 50% of test population (ingestion or skin contact)
LC50	Lethal Dose for 50% of test population (inhalation)
UN Number	United Nations Number
TD	Toxic Dose

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