

Safety Data Sheet

according to WHS Regulations

Print date: 03.06.2026

Revision date: June 2031

1. IDENTIFICATION

Product Name: TYPHOON DUO Concentrate Thermal Fogging & ULV Misting with Natural Pyrethrin

Other Names: Mixture

Recommended Use: Insecticide

Distributor: Sundew Solutions Pty Ltd

Address: Unit 11, 4 Dunlop Court, Bayswater VIC 3153

Telephone: 1800 786 339

Emergency Phone: Poisons Information Centre 13 11 26

2. HAZARDS IDENTIFICATION

Signal Word: CAUTION

Hazards:

Respiratory sensitization category 1
 Skin sensitization category 1

STOT (repeated exposure) category 2
 Aquatic toxicity (acute/chronic) category 1
 Hazardous to terrestrial vertebrates
 Hazardous to terrestrial invertebrates

Hazard Phrases

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.
 May cause damage to organs through prolonged or repeated exposure.
 Very toxic to aquatic life with long lasting effects.

Precautionary Phrases:

Read label before use.
 Avoid breathing mist/spray.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves.
 In case of inadequate ventilation wear respiratory protection.
 IF ON SKIN: Wash with plenty of soap and water.
 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
 Get medical advice/attention if you feel unwell.
 If skin irritation or rash occurs: Get medical advice/attention.
 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
 Take off contaminated clothing and wash before re-use.
 Collect spillage.
 Dispose of contents/container in accordance with local/regional/national/international regulations
 Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area
 Do not apply directly into or onto water
 Do not apply substance to plants if bees are foraging; or the plants are in flower or part flower

Pictograms:



3. COMPOSITION: Information on Ingredients

Ingredient	CAS Number	Concentration (%w/w)
Natural Pyrethrum	8003-34-7	2.6 – 3.0
Hydrotreated kerosene	64742-47-8	1.0 – 5.0
Balance – Ingredients not contributing to hazards	Proprietary	To 100%

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4. FIRST AID MEASURES

Consult the Poisons Information Centre 13 11 26 or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

Swallowed

If swallowed, do not induce vomiting. If conscious and alert, rinse mouth and drink 1-2 cupfuls of water. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

Skin Contact

Immediately wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes and other contaminated leather articles such as belts and watchbands. Apply Vitamin E cream for skin irritations. Seek medical attention for skin irritations.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Do NOT allow victim to rub eyes or keep eyes closed. Obtain urgent medical attention.

Inhalation

Move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Obtain medical attention immediately.

First Aid facilities

Provide eye baths and safety showers close to areas where exposure may occur.

Medical Attention

The decision to induce vomiting should be made by a physician because rapid absorption of this material can occur through the lungs after aspiration from vomiting. Gastric lavage may be indicated if ingested. Emesis should not be performed unless a near fatal dose of material has been ingested. Emesis and aspiration of the lungs may cause chemical pneumonia with hydrocarbon solvent present. Treat symptomatically. No known antidote. Do not confuse with cholinesterase poisoning. In all cases consult the National Poisons Centre for the most up to date treatment information.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media

Fine spray, foam, dry chemical powder or carbon dioxide. Cool fire exposed container with water spray.

Hazards from combustion products

Decomposition from combustion will emit acrid smoke and irritating fumes containing carbon oxides.

Precautions for fire fighters and special protective equipment

Full protective clothing with chemical goggles, and self-contained breathing apparatus

Hazchem Code

2Z

Flash Point

>95°C

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Eliminate sources of ignition. Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment vessel or bunded area. Prevent any vapours or dust from building up in confined areas. Ensure that drain valves are closed at all times. Clean up minor spills immediately.

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Methods and materials for containment for a major spill

Eliminate sources of ignition. Warn occupants of downwind areas of possible hazards. Keep the public away from the area. Prevent product from entering sewers, watercourses, or low-lying areas. Shut off the source of the spill if safe to do so. Advise relevant authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Take measures to minimise the effect on the groundwater. If possible recover product using a pump paying attention to flammability hazards or absorbent material. Collect and seal in properly labelled containers for disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. In all instances due consideration must be given for First Aid Measures (Section 4), PPE requirements (Section 8), Stability and Reactivity (Section 10) for this material.

7. HANDLING AND STORAGE

Precautions for safe handling

Keep out of reach of children. Keep containers closed Use only in well-ventilated areas. When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before reuse.

Conditions for safe storage

Store in a cool, dry place away from direct sunlight. Keep away from heat and ignition sources. Store in original containers. Protect from physical damage to prevent accidental release. Do not store with food, feedstuffs, fertilizers and seeds.

Incompatible materials

None known.

Fire Extinguisher Requirements

No specific requirements.

8. EXPOSURE CONTROLS: Personal Protection

Exposure Limits

Pyrethrins; ACGIH 5 mg/m³. Hydrotreated Kerosene: ACGIH 525 mg/m³ (TWA). No WES TEL or EEL has been set by Australian/New Zealand Standards AS/NZS 1336 for this product.

Engineering Controls:

The use of local exhaust ventilation is recommended to control process emissions near the source. Sufficient ventilation should be provided to keep the solvent in air concentrations below any relevant exposure limit. Provide mechanical ventilation of confined spaces. Explosion proof electrical equipment is not required but is recommended.

Hygiene Controls:

Facilities storing or utilising this material should be equipped with an eyewash facility, safety shower and facility for washing hands/face after work.

Personal Protective Equipment

Respiratory Protection: When handling this material it is recommended to use an approved respirator or half face mask complying with Worksafe and other relevant standards. An approved half/full face filter respirator for organic vapours should be worn when applying this product as a minimum.

Eye protection: Always use safety glasses or a chemical goggles when handling this product. Contact lenses may absorb and concentrate irritants, glasses are recommended.

Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear of safety boots when handling this product. It is recommended that chemical resistant gloves (eg nitrile, neoprene) be worn when handling this product.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to slightly opaque liquid
Odour:	Characteristic odour or pyrethrin
Odour Threshold:	No data available
Boiling Point (°C):	100
Boiling Point Range	No data available
Melting Point (°C):	<0
Flash Point (°C):	>95
Lower Explosive Limit, LEL (%):	No data available
Upper Explosive Limit, UEL (%):	No data available
SG/ Density, 20°C (g/mL):	0.95 – 1.05
Vapour Pressure, 20°C (kPa):	No data available
Vapour Density:	No data available
Alkalinity/ acidity as pH:	5.0 – 7.0 (1%v/v emulsion)
Solubility in water:	Forms an emulsion
Partition Coefficient (Kow):	No data available for formulated product
Auto-ignition Temperature (°C):	No data available
Decomposition Temperature (°C):	No data available
Kinematic Viscosity:	No data available

The values listed are indicative of this product's physical and chemical properties. No data is available for any properties not listed above.

10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure.

Hazardous decomposition products

Decomposition from combustion will emit acrid smoke and irritating fumes containing carbon oxides.

Specific Materials to Avoid

Strong acids, alkalis, oxidising agents, and heat.

Hazardous Polymerisation

Not known to occur.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion: Low toxicity if swallowed. Can cause stomach irritation, resulting in nausea, cramps and vomiting.

Excessive ingestion can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness. Aspiration of the lungs can occur during vomiting leading to chemical pneumonitis.

Eye Contact: The liquid may cause transient irritation to the eyes. Avoiding eye contact is recommended.

Skin Contact: This product may cause mild skin irritation upon contact. Avoid contact with the skin.

Inhalation: The vapour/mist is discomforting to the upper respiratory tract and lungs. Acute effects from inhalation of high vapour concentrations or mists may cause effects similar to that of ingestion.

Chronic Effects

Repeated inhalation or skin contact may cause sensitisation. Prolonged or repeated skin contact may cause irritation and possible dermatitis. Persons with pre-existing conditions are advised to limit or avoid product contact.

Other Health Effects Information

Not Available.

Toxicological Information

Oral LD₅₀: 500 mg/kg (rat) pyrethrins; >10,000 mg/kg formulated product (estimated)

Inhalation LC₅₀: 3.4 mg/L (rat) pyrethrins; 121.9 mg/L formulated product (estimated)

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12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is harmful to the environment, with the potential to result in irreparable and irreversible effects. See hazard classifications in section 15 of this document.

Persistence/ Biodegradability: log P: 4.6. This product is expected to have moderate persistence in the environment with a soil half life 8-12 days, neutral pH water half life 35 day but is potentially bioaccumulative.

Mobility: This product is likely to have low mobility in the environment and low leaching potential.

Aquatic Toxicity

Fish toxicity LC₅₀: 0.0018 mg/L pyrethrins; 0.06 mg/L formulated product (estimated)

Daphnia Magna EC₅₀: 0.0067 mg/L pyrethrins; 0.24 mg/L formulated product (estimated)

Green algae: >100 mg/kg formulated product (estimated)

13. DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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.

14. TRANSPORT INFORMATION

UN No:	UN3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (contains pyrethrins)
DG Class:	9
Subsidiary Risk:	
Packing Group:	III
Hazchem Code:	3Z
Environmental:	Marine Pollutant

15. REGULATORY INFORMATION

Australian Inventory of Industrial Chemicals:

All components are on the inventory, or in compliance with the inventory.

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

Not a scheduled poison.

Australian Pesticides and Veterinary Medicines Authority:

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA approval number 96190.

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16. OTHER INFORMATION

Date of Preparation or Last Revision: 03.06.2026

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Acute 3: Hazardous to the aquatic environment, short-term (Acute). Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - June 2023".

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. SUNDEW Solutions Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.