

PY-T-50

Safety Data Sheet

according to the WHS Regulations
Issue date: 4/02/2026 Issue date: 4/02/2026 Supersedes: 4/02/2026 Version: 10.0

SECTION 1: Product identifier

1.1. GHS Product identifier

Product form : Mixture
Product name : PY-T-50
Product code : 501, 502, 503, 504, 506, 507, 508, 509, 553, 555, 557, 558, 590, 250, 255, 521

1.2. Other means of identification

Synonyms : Pale refined pyrethrins, PY WIP, PY Filtrate

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Industrial use
Restrictions on use : Not to be used for any purpose other than the one the product was designed for

1.4. Details of manufacturer or importer

Manufacturer

Botanical Resources Australia
44 Industrial Drive
Ulverstone TAS 7315
Australia
T +61 3 6425 5888
sds@botanicalresources.com

1.5. Emergency phone number

Emergency number : CHEMTREC +1 (703) - 741-5970

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 4	H227
Acute toxicity (oral), Category 4	H302
Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin sensitisation, category 1B	H317
Specific target organ toxicity – single exposure, Category 1	H370
Specific target organ toxicity – Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :



Exclamation mark Health hazard Environment

Signal word (GHS AU) : Danger
Contains : Distillates, petroleum, hydrotreated light (30 – 60 %); Pyrethrins (50 %)
Hazard statements (GHS AU) : H227 - Combustible liquid
H302+H332 - Harmful if swallowed or if inhaled
H304 - May be fatal if swallowed and enters airways
H317 - May cause an allergic skin reaction
H370 - Causes damage to organs (nervous system) (oral)

PY-T-50

Safety Data Sheet

according to the WHS Regulations

Precautionary statements (GHS AU)

- H373 - May cause damage to organs (Respiratory tract) through prolonged or repeated exposure (inhalation)
H410 - Very toxic to aquatic life with long lasting effects
- : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe mist, vapours, spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER if you feel unwell.
P331 - Do NOT induce vomiting.
P333+P313 - If skin irritation or rash occurs: Get medical advice.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use dry extinguishing powder, foam, carbon dioxide (CO₂) to extinguish.
P391 - Collect spillage.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- : AUH066 - Repeated exposure may cause skin dryness or cracking.

Additional hazard statements (GHS AU)

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%
Distillates, petroleum, hydrotreated light	64742-47-8	30 – 60
Pyrethrins	8003-34-7	50
Butylated Hydroxytoluene (BHT)	128-37-0	5
Other substances (not contributing to the classification of this product)	-	0 – 15

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

- First-aid measures general : Call a physician immediately.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a physician immediately. Rinse mouth. Do not induce vomiting.

4.2. Symptoms caused by exposure

- Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact : May cause an allergic skin reaction.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : Risk of lung oedema.

PY-T-50

Safety Data Sheet

according to the WHS Regulations

4.3. Medical attention and special treatment

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.
Explosion hazard : No direct explosion hazard.
General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Absorb spillage to prevent material damage. No action shall be taken without appropriate training or involving any personal risk.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Keep upwind.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Hazchem Code : * 3Z

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Absorb spillage to prevent material damage. No action shall be taken without appropriate training or involving any personal risk.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing mist, spray, vapours. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

PY-T-50

Safety Data Sheet

according to the WHS Regulations

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Do not breathe mist, vapours, spray. Avoid contact with skin and eyes.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.
- Information on mixed storage : Store away from incompatible materials and products. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.
- Storage area : Keep out of direct sunlight.
- Special rules on packaging : Position containers so that any labelling information is visible. Keep packaging closed when not in use. Check containers and packaging regularly for leaks and damage.
- Packaging materials : Always store product in container of same material as original container.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

Pyrethrins (8003-34-7)	
Australia - Occupational Exposure Limits	
Local name	Pyrethrum (Pyrethrins (ISO))
OES TWA	5 mg/m ³
Remark (AU)	Sen - Respiratory and/or Skin Sensitiser.
Regulatory reference	Workplace exposure standards for airborne contaminants (2024)
Butylated Hydroxytoluene (BHT) (128-37-0)	
Australia - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol
OES TWA	10 mg/m ³
Regulatory reference	Workplace exposure standards for airborne contaminants (2024)

8.2. Monitoring methods

- Monitoring methods : Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents. Gas detectors should be used when toxic gases may be released. Gas detectors should be used when flammable gases/vapours may be released.

8.3. Engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Use spark-/explosionproof appliances and lighting system. Use grounded electrical/mechanical equipment.

8.4. Individual protection measures, such as personal protective equipment (PPE)

- Personal protective equipment : Personal protective equipment (PPE) must be suited to the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. Avoid all unnecessary exposure. Wear recommended personal protective equipment.
- Hand protection : Wear protective gloves: Antistatic gloves
- Eye protection : Wear eye protection: Chemical goggles or safety glasses
- Skin and body protection : Wear protective clothing: Antistatic clothing, Flame retardant protective clothing
- Respiratory protection : Wear appropriate mask: Combined gas/dust mask with filter type

PY-T-50

Safety Data Sheet

according to the WHS Regulations

Personal protective equipment symbol(s)



Environmental exposure controls

: Avoid release to the environment.

Other information

: The following Australian and New Zealand Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Industrial Clothing: AS2919, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210. PPE compliant with the recommended standards should be selected.

SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: Clear to cloudy.
Colour	: Amber
Odour	: Characteristic Slight, grass like
Odour threshold	: No data available
pH	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: Melting point: Not applicable
Boiling point	: No data available
Flash point	: > 61 °C closed cup
Auto-ignition temperature	: No data available
Flammability	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: > 4
Viscosity, kinematic	: 15.1 mm ² /s at 20°C
Explosive properties	: No data available
Explosive limits	: No data available
Minimum ignition energy	: No data available
Fat solubility	: No data available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: Strong acids. Strong bases. Strong oxidizers.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Likely routes of exposure	: Dermal
Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Inhalation:dust,mist: Harmful if inhaled.

PY-T-50	
LD50 oral rat	730 mg/kg
LD50 dermal rat	> 5000 mg/kg

PY-T-50

Safety Data Sheet

according to the WHS Regulations

PY-T-50	
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	2.6 mg/l/4h
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Causes damage to organs (nervous system) (oral).
STOT-repeated exposure	: May cause damage to organs (Respiratory tract) through prolonged or repeated exposure (inhalation).
Aspiration hazard	: May be fatal if swallowed and enters airways.

PY-T-50	
Viscosity, kinematic	15.1 mm ² /s at 20°C
Distillates, petroleum, hydrotreated light (64742-47-8)	
Hydrocarbon	Yes
Viscosity, kinematic	1.6 – 3.4 mm ² /s
Other information	: Toxicity values from laboratory studies

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

Ecology - general	: Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Very toxic to aquatic life with long lasting effects.

PY-T-50	
LC50 - Fish [1]	5.2 µg/l oncorhynchus mykiss (rainbow trout)
LC50 - Fish [2]	16 µg/l cyprinodon variegatus (sheepshead minnow)
LC50 - Other aquatic organisms [1]	0.012 mg/l Daphnia magna (water flea)
LC50 - Other aquatic organisms [2]	0.00092 mg/l Hyalella azteca
NOEC (chronic)	0.00086 mg/l Daphnia magna (water flea)
NOEC chronic fish	0.0019 mg/l Pimephales promelas (fathead minnow)
NOEC chronic crustacea	0.0003 mg/l Americamysis bahia
NOEC chronic algae	0.23 mg/l Desmodesmus subspicatus
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LD50 oral rat	730 mg/kg

12.2. Persistence and degradability

PY-T-50	
Persistence and degradability	Photodegradable.

PY-T-50

Safety Data Sheet

according to the WHS Regulations

12.3. Bioaccumulative potential

PY-T-50

Partition coefficient n-octanol/water (Log Pow)	> 4
Partition coefficient n-octanol/water (Log Kow)	> 4
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.54

12.4. Mobility in soil

PY-T-50

Mobility in soil	Expected to be relatively immobile in soil
Partition coefficient n-octanol/water (Log Pow)	> 4
Partition coefficient n-octanol/water (Log Kow)	> 4
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.54

12.5. Other adverse effects

Ozone : Not classified (classification not possible)
Other adverse effects : No additional information available

PY-T-50

Fluorinated greenhouse gases	False
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SECTION 13: Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.




SECTION 14: Transport information

ADG	IMDG	IATA
14.1. UN number		
3082	3082	3082
Australian Special Provision (SP AU01) ADG Code 7th Ed. Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in: (a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or (b) IBCs.		
14.2. UN Proper Shipping Name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrethrins. Not a Dangerous Good when transported by Road and Rail in packagings that do not incorporate a receptacle exceeding 500kg/(L) OR IBC's)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.

PY-T-50

Safety Data Sheet

according to the WHS Regulations

ADG	IMDG	IATA
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III - Substances presenting low danger	III	III
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes

14.6. Special precautions for user

Specific storage requirement : No data available
Shock sensitivity : No data available

14.7. Additional information

Other information : Australian Special Provision (SP AU01) ADG Code 7th Ed. Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in:
(a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or
(b) IBCs.

Transport by road and rail

UN-No. (ADG) : 3082
Special provision (ADG) : 274, 331, 335, 375, AU01
Limited quantities (ADG) : 5I
Excepted quantities (ADG) : E1
Packing instructions (ADG) : P001, IBC03, LP01
Special packing provisions (ADG) : PP1
Portable tank and bulk container instructions (ADG) : T4
Portable tank and bulk container special provisions (ADG) : TP1, TP29

Transport by sea

UN-No. (IMDG) : 3082
Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG) : A

Air transport

UN-No. (IATA) : 3082
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964

PY-T-50

Safety Data Sheet

according to the WHS Regulations

CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197, A215
ERG code (IATA) : 9L

14.8. Hazchem or Emergency Action Code

Hazchem Code : * 3Z

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations

Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS Inventory) status : All the chemicals contained in this product are listed introductions

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Relevant Poisons Schedule number : Unscheduled

Australian Pesticides and Veterinary Medicines Authority (APVMA)

Not applicable

15.2. International agreements

No additional information available

SECTION 16: Other information

Indication of changes:

Hazards identification. Ecological information.

Data sources : Safe Work Australia - Code of Practice - Preparation of Safety Data Sheets for Hazardous Chemicals
Safe Work Australia - Code of Practice - Labelling of Workplace Hazardous Chemicals
Safe Work Australia - Workplace Exposure Standards for Airborne Contaminants
Safe Work Australia - Hazardous Chemical Information System (HCIS)
Australian Inventory of Industrial Chemicals (AICIS Inventory)
Environmental Protection Authority - Hazardous Substances (Hazard Classification) Notice 2020
Environmental Protection Authority - Hazardous Substances (Safety Data Sheets) Notice 2017
Environmental Protection Authority - Hazardous Substances (Labelling) Notice 2017
New Zealand - Chemical Classification and Information Database (CCID)
New Zealand - Inventory of Chemicals (NZIoC)
European Chemicals Agency (ECHA) - Annex VI (C&L Inventory)
European Chemicals Agency (ECHA) - REACH Study Results
European Chemicals Agency (ECHA) - REACH Registration Dossiers
United Nations - Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Uniform Scheduling of Medicines and Poisons (SUSMP)
United Nations Recommendations on the Transport of Dangerous Goods (UNRTDG Model Regulation)
Australian Dangerous Goods Code (ADG Code)
International Air Transport Association Dangerous Goods Regulations (IATA DGR)
International Maritime Dangerous Goods (IMDG Code).

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Safety Data Sheet (SDS), Australia

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.