

Safety Data Sheet

according to WHS Regulations

Printing date 22.11.2021

Revision: 22.11.2021

1 Identification

Product Name: TITAN LAMBDA-CYHALOTHRIN 250 CS INSECTICIDE

Other Means of Identification: Mixture

APVMA Approval Number: 82982

Recommended Use of the Chemical and Restriction on Use: Agricultural insecticide

Details of Manufacturer or Importer:

Titan Ag Pty Ltd
Princes Street Marina
Suite 15/16 Princes Street
Newport NSW 2106

Phone Number: 02 9999 6655

Emergency telephone number: 02 9999 6655

2 Hazard(s) 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 (7th edition).



Skull and crossbones

Acute Toxicity (Inhalation) 2 H330 Fatal if inhaled.



Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Signal Word Danger

Hazard Statements

H302 Harmful if swallowed.

H330 Fatal if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P284 [In case of inadequate ventilation] wear respiratory protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P310	Immediately call a POISON CENTER/doctor.
P320	Specific treatment is urgent (see on this label).
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 91465-08-6	Lambda-cyhalothrin	20-25%
	Acute Toxicity (Dermal) 4, H312"/>	

4 First Aid Measures

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. Application of vitamin E cream may reduce discomfort.

Eye Contact:

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if symptoms persist.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Fatal if inhaled. May cause irritation to mucous membranes.

Skin Contact: May cause skin irritation. Skin contact may cause temporary itching, tingling, numbness and paresthesia.

Eye Contact: May cause eye irritation.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation.

May cause acidosis, tachycardia, low blood pressure, cough, shortness of breath, nausea, vomiting, diarrhoea, fever, convulsions, somnolence, coma and circulatory collapse.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Use fire extinguishing methods suitable to surrounding conditions.
Water fog, foam, dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and other hazardous compounds.

Product is not flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

HAZCHEM Code: 2X

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Special Protective Equipment and Precautions for Fire Fighters:

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

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.

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. Collect the spilled material and place into a suitable container for disposal.

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 container tightly closed when not in use. Do not store in direct sunlight for prolonged periods. Do not store with seed, fertilisers and foodstuff. Keep away from strong oxidising agents, acids and bases.

8 Exposure Controls and Personal Protection**Exposure Standards:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:

Respiratory protection is not required under normal use conditions.

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:

Chemical resistant nitrile, neoprene, viton or laminate 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 has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of 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.

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9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Beige
Odour:	Negligible
Odour Threshold:	No information available
pH-Value:	5.4
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Flammability:	Product is not flammable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	0.0002 mPa
Relative Density:	1.10
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	0.004 mg/L Dispersible
Partition Coefficient (n-octanol/water):	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

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

Conditions to Avoid: Direct sunlight.

Incompatible Materials: Strong oxidising agents, acids and bases.

Hazardous Decomposition Products: Oxides of carbon and other hazardous compounds.

11 Toxicological Information

Toxicity:**LD50/LC50 Values Relevant for Classification:****CAS: 91465-08-6 Lambda-cyhalothrin**

Oral	LD50	56 mg/kg (rat)
Inhalation	LC50/4 h	0.06 mg/l (mammal)

Acute Health Effects

Inhalation: Fatal if inhaled. May cause irritation to mucous membranes.

Skin:

May cause skin irritation. Skin contact may cause temporary itching, tingling, numbness and burning sensation.

Eye: May cause eye irritation.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation.

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.

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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:**

May cause temporary itching, tingling, numbness and burning sensation. May cause acidosis, tachycardia, low blood pressure, cough, shortness of breath, nausea, vomiting, diarrhoea, fever, convulsions, somnolence, coma and circulatory collapse.

Existing Conditions Aggravated by Exposure: No data available.**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for λ -cyhalothrin for a human is 0.001 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.1 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', 2021).

12 Ecological Information

Ecotoxicity:

Not toxic to birds:

LD50 >3950 mg/kg (mallard duck)

LC50/8 day dietary >3948 mg/kg (mallard duck)

Highly toxic to bees by contact or ingestion. Do not apply while bees are actively foraging.

LD50 0.038 μ g/bee (contact)**Aquatic toxicity:** Very toxic to aquatic life with long lasting effects.**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.**Other adverse effects:** No further relevant information available.

13 Disposal Considerations

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.

14 Transport Information

UN Number**ADG, IMDG, IATA**

UN3352

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Proper Shipping Name

ADG PYRETHROID PESTICIDE, LIQUID, TOXIC (Lambda-cyhalothrin), ENVIRONMENTALLY HAZARDOUS
IMDG PYRETHROID PESTICIDE, LIQUID, TOXIC (Lambda-cyhalothrin), MARINE POLLUTANT
IATA PYRETHROID PESTICIDE, LIQUID, TOXIC (Lambda-cyhalothrin)

Dangerous Goods Class**ADG Class:** 6.1**Subsidiary Risk:****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

Packagings & IBCs - Packing Instruction:

P001, IBC03, LP01

Packagings & IBCs - Special Packing Provisions: None**Portable Tanks & Bulk Containers - Instructions:** T7**Portable Tanks & Bulk Containers - Special****Provisions:** TP2, TP28

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:

Poisons Schedule: 6

Australian Pesticides and Veterinary Medicines Authority:

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 82982.

16 Other Information

Date of Preparation or Last Revision: 22.11.2021**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 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

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

Acute Toxicity (Oral) 3: Acute toxicity – Category 3

Acute Toxicity (Dermal) 4: Acute toxicity – Category 4

Acute Toxicity (Inhalation) 2: Acute toxicity – Category 2

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

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

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 - July 2020”

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