



MSDS OF NAADCO Lambda-Cyhalothrin 250 Insecticide

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name	NAADCO Lambda-Cyhalothrin 250 Insecticide
Supplier	New Australia Agricultural Development Company Pty Limited
Address	Rear 150-154 Parramatta Rd, Auburn, NSW, 2144
Telephone	+61 2 94983675, 0430990521
Fax	+61 2 94983675
Website	www.naadco.com.au

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of Safe Work Australia.

Classified as a Dangerous Good according to the ADG Code.

Signal word:**Danger**

Hazardous ingredients:Lambda-Cyhalothrin

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.

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.



Pictograms:



3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration
Lambda-cyhalothrin	91465-08-6	250g/L
Monomer	9016-87-9	100g/L
Benzisothiazolin-3-one	2634-33-5	5g/L
Other ingredients (including water) determined not to be hazardous		up to 1000g/L

4. FIRST AID MEASURES

Inhalation:

If swallowed do NOT induce vomiting. Wash mouth with water. If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126. Give plenty of water to drink.

Skin Contact:

Remove contaminated clothing. Wash skin with soap and water to remove chemical – do not scrub skin. Facial skin contact may cause temporary facial numbness. If skin is irritated, seek medical advice.

Eye Contact:

Immediately hold eyes open and flood gently with clean water until chemical is removed. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. If irritation persists, seek medical advice.

Ingestion:

If swallowed, do not induce vomiting. Rinse mouth and then drink plenty of water. Contact the Poisons Information Centre on 13 11 26 (Aust).

5. FIRE FIGHTING MEASURES

Specific Hazard:

Generally considered a low risk due to the water content (~50%), but once the water has evaporated the product is combustible and contains a small amount of solvent. Flash point > 103°C.

Extinguishing media:

Combustible liquid (C1). Extinguish fire using foam blanket, carbon dioxide or dry agent. If not available, use water fog or fine water spray but ensure all runoff is contained.

Hazards from combustion products:

This product is likely to decompose only after heating to dryness, followed by further strong heating. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. This product is harmful by inhalation, fire decomposition products from this product will be toxic if inhaled. Take appropriate protective measures.

Precautions for fire-fighters and special protective equipment:



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Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus if risk to of exposure to vapour or smoke. Do not breathe smoke or vapours generated.

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.

Clean-up Methods

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 labelled container for disposal. Provide adequate ventilation.

Environmental Precautions

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

7. HANDLING AND STORAGE

Handling:

No smoking, eating or drinking should be allowed where material is used or stored. Poisonous if absorbed by skin contact or swallowed. Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container, preparing spray and using prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves and goggles. For space applications, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves, goggles and half facepiece respirator with dust cartridge or canister. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles, contaminated clothing and respirator (and if rubber, wash with detergent and warm water).

Storage:

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers. Do not store for prolonged periods in direct sunlight. Not classified as a Dangerous Good. This product is a Schedule 6 Poison (S6) and must be stored, transported and sold in accordance with the relevant Health Department regulations

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Exposure guidelines have not been established for this product by Safe Work Australia.

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Use in ventilated areas adequate to keep exposure below the TWA. Keep containers closed when not in use.



Personal Protective Equipment (PPE): General:

When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves, and face shield. If product on skin, immediately wash area with soap and water. Wash hands after use. After each day's use, wash gloves, face-shield and contaminated clothing.

Personal Hygiene:

Harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Beige
Boiling point	No data.
Freezing point	No data.
Specific Gravity	Approximately 1.0.
Solubility in Water	Emulsifies in water.
pH	No data available.
Flammability	Combustible liquid (C1).
Corrosive hazard	Not corrosive.
Flashpoint (°C)	~ 103°C.
Poisons Schedule	S6.
Formulation type	Capsule Suspension.

10. STABILITY AND REACTIVITY

Chemical Stability:

Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

Conditions to avoid:

Do not store for prolonged periods in direct sunlight.

Incompatible materials:

Avoid strong acids, bases and oxidizing agents.

Hazardous decomposition products:

This product is likely to decompose only after heating to dryness, followed by further strong heating. Toxic and noxious fumes will be released.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral	LD ₅₀ (rat) 56 mg/kg
Acute Toxicity –Dermal	LD ₅₀ (rabbit) 632-696mg/kg
Acute Toxicity –Inhalation	LC ₅₀ (rat) (4hr) >0.06mg/l/4h



Skin corrosion/irritation	Moderately Irritating (rabbit)
Serious eye damage/irritation	No Irritating (rabbit)
Respiratory or skin sensitization	Not a skin Sensitiser (Guinea Pig)
Reproductive/Developmental Effects	Lambda cyhalothrin: Non-mutagenic in the Ames test.

Chronic/Subchronic Toxicity Studies

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.

Carcinogenicity

Animal testing did not show any carcinogenic effects.

12. ECOLOGICAL AND ECOTOXICOLOGICAL INFORMATION

Ecotoxicity:	Not toxic to birds: LD ₅₀ >3950 mg/kg (mallard duck) LC ₅₀ /8 day dietary >3948 mg/kg (mallard duck) Highly toxic to bees by contact or ingestion. Do not apply while bees are actively foraging. LD ₅₀ 0.038 µg/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:	Rapidly degraded in soil; DT ₅₀ for microbial degradation 23-82 d, for field soil 6-40 d. Strongly adsorbed to soil and sediment organic matter, K _{oc} 330 000. Negligible potential for leaching of lambda-cyhalothrin and its degradation products through soil. Rapid dissipation from water in aquatic systems. DT ₅₀ for dissipation from surface waters in lab. water-sediment systems 5-11 h; in a microcosm DT ₅₀ <3 h. Rapid and extensive degradation of parent compound in aquatic systems; DT ₅₀ for degradation in lab. water-sediment systems 7-15 d; in a microcosm DT ₅₀ <3 h, DT ₉₀ <3 d.
Other adverse effects:	No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse empty containers unless they are specifically designed to be re-used. Empty container retains product residue. Triple rinse, or equivalent, empty container, return rinse water to dilution mixture. Dispose of dilution mixtures and other residues according to local regulations if it cannot be disposed of by use according to label instructions. Dispose of empty containers in accordance with local regulations. Consult provincial environment ministry for advice on waste disposal. Industrial/commercial waste may be handled at licensed facilities only. Waste shipments must be securely packaged and properly labelled. Only licensed carriers may be used, and proper documents must accompany the shipment.



14. TRANSPORT INFORMATION

UN No: 3352

Class: 6.1

Packing group: III

Proper Shipping Name

ADG PYRETHROID PESTICIDE, LIQUID, TOXIC (Lambdacyhalothrin),
ENVIRONMENTALLY HAZARDOUS ENVIRONMENTALLY HAZARDOUS

IMDG PYRETHROID PESTICIDE, LIQUID, TOXIC (Lambda cyhalothrin), MARINE
POLLUTANT

IATA PYRETHROID PESTICIDE, LIQUID, TOXIC (Lambda cyhalothrin)

15. REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA)

16. OTHER INFORMATION

Version 1.0

Revision Date: 2023.11.02

The information contained in this MSDS is provided in good faith and is believed to be correct and the date hereof. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the works place including in conjunction with other products.

Please read all labels carefully before using product.