SAFETY DATA SHEET

According to Safe Work Australia

Printing Date 20.07.2021 Revision: 20.07.2021

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: DELTAPRO® 25 PROFESSIONAL INSECTICIDE

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use:
Insecticide for control of a range of insect pests in various situations.

Details of Manufacturer or Importer:
Sundew Solutions Pty Ltd
Unit 11, 4 Dunlop Court
Bayswater VIC 3153

Phone Number: 1800 786 339

Emergency telephone number: 1800 786 339

2 . HAZARDS IDENTIFICATION

Hazardous Nature:
Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)


environment

Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.



Skin Corrosion/Irritation 2	H315	Causes skin irritation.
Serious Eye Damage/Irritation 2A	H319	Causes serious eye irritation.
Skin Sensitisation 1	H317	May cause an allergic skin reaction.

Signal Word Warning

Hazard Statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P391	Collect spillage.

(Contd. on page 2)

SAFETY DATA SHEET

According to Safe Work Australia

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Product Name: DELTAPRO® 25 PROFESSIONAL INSECTICIDE

(Contd. of page 1)

P362+P364 Take off contaminated clothing and wash it before reuse.
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:		
52918-63-5	deltamethrin (ISO) Acute Toxicity (Oral) 3, H301; Acute Toxicity (Inhalation) 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5%
55965-84-9	Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2Hisothiazol-3-one (3:1) Acute Toxicity (Oral) 3, H301; Acute Toxicity (Dermal) 3, H311; Acute Toxicity (Inhalation) 3, H331; Skin Corrosion/Irritation 1A, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sensitisation 1, H317	0.25%

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 irritation, remove contaminated clothing and wash affected areas with water and soap for 10 minutes. Seek medical attention.

Eye Contact:
In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

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 medical attention.

Symptoms Caused by Exposure:
Inhalation: Vapours may cause respiratory discomfort. Inhalation of high vapour concentration may cause chest tightness and pulmonary oedema.
Skin Contact: May cause mild skin irritation, numbness, stinging or burning sensation.
Eye Contact: May cause eye irritation, stinging, reddening and watering.
Ingestion: May be harmful if swallowed. Ingestion causes nausea, vomiting, diarrhoea, abdominal pain, and salivation.
Potential CNS effects are dizziness, blurred vision, headache, listlessness, anorexia, somnolence, seizures, convulsions, tremor and coma.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, foam and dry chemical.

Specific Hazards Arising from the Chemical:
Hazardous combustion products include oxides of carbon and nitrogen, hydrogen cyanide and hydrogen bromide.

Special Protective Equipment and Precautions for Fire Fighters:
When fighting a major fire wear self-contained breathing apparatus and protective equipment.

(Contd. on page 3)

SAFETY DATA SHEET

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Product Name: DELTAPRO® 25 PROFESSIONAL INSECTICIDE

(Contd. of page 2)

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.

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. Wash spill area, preventing runoff from entering drains.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:
Contaminated work clothing must not be allowed out of the workplace.
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours.
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 in original container, tightly closed when not in use. Protect from direct sunlight and frost. Keep away from oxidising agents, strong acids and alkalis.

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.

57-55-6 1,2-Propanediol	
WES	TWA: 474* 10** mg/m³, 150* ppm *vapour&particluates;**particulates only

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:
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:
PVC or rubber 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.

(Contd. on page 4)

SAFETY DATA SHEET

According to Safe Work Australia

Printing Date 20.07.2021 Revision: 20.07.2021

Product Name: DELTAPRO® 25 PROFESSIONAL INSECTICIDE

(Contd. of page 3)

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.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	
Form:	Opaque liquid
Colour:	White
Odour:	No information available
Odour Threshold:	No information available
pH-Value:	3-5
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	100 °C
Flash Point:	Not applicable
Flammability:	Product is not flammable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	No information available
Relative Density at 20 °C:	1.016
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Forms a suspension.
Partition Coefficient (n-octanol/water) at 25 °C:	4.6 log POW (deltamethrin)

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

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

Conditions to Avoid: Direct sunlight and frost.

Incompatible Materials: Oxidising agents, strong acids and alkalis.

Hazardous Decomposition Products:
Oxides of carbon and nitrogen, hydrogen cyanide and hydrogen bromide.

11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD_{50}/LC_{50} Values Relevant for Classification:		
52918-63-5 deltamethrin (ISO)		
Oral	LD50	>15000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rat)
Inhalation	LC50	>2.3 mg/L/4hr (rat)

Acute Health Effects
Inhalation:
Vapours may cause respiratory discomfort and may be harmful if inhaled. Inhalation of high vapour concentration may cause chest tightness and pulmonary oedema.
Skin: Causes skin irritation, numbness, stinging or burning sensation.

(Contd. on page 5)

SAFETY DATA SHEET

According to Safe Work Australia

Printing Date 20.07.2021 Revision: 20.07.2021

Product Name: DELTAPRO® 25 PROFESSIONAL INSECTICIDE

(Contd. of page 4)

Eye: Causes eye irritation, stinging, reddening and watering.
Ingestion:
May be harmful if swallowed. Ingestion causes nausea, vomiting, diarrhoea, abdominal pain, and salivation. Potential CNS effects are dizziness, blurred vision, headache, listlessness, anorexia, somnolence, seizures, convulsions, tremor and coma.Vapours may cause respiratory discomfort. Inhalation of high vapour concentration may cause similar to that of ingestion.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation: May cause an allergic skin reaction.

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: No information available

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:
The Australian Acceptable Daily Intake (ADI) for deltamethrin for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 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: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', June 2014).

12 . ECOLOGICAL INFORMATION

Ecotoxicity: Deltamethrin is toxic to bees.

Aquatic toxicity:
Fish toxicity: LC_{50}=0.001 – 0.01mg/L/96 hr
Daphnia toxicity: LC_{50} = 3.5 µg/L/48 hr
Toxicity to algae: EC_{50} >9.1mg/L/96 hr
Highly toxic to aquatic life with long lasting effects.

Persistence and Degradability: Deltamethrin is not considered persistent in the environment.

Bioaccumulative Potential: No information available

Mobility in Soil: No information available
Other adverse effects: No 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.

(Contd. on page 6)

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(Contd. of page 5)

14 . TRANSPORT INFORMATION

UN Number
ADG Not regulated
IMDG, IATA UN3082

Proper Shipping Name
ADG Not regulated
IMDG, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE , LIQUID, N.O.S.

Dangerous Goods Class
ADG Class: Not regulated
IMDG Class: 9 Miscellaneous dangerous substances and articles.

Packing Group:
ADG Not regulated
IMDG, IATA III

Marine pollutant: No
Symbol (fish and tree)

EMS Number: F-A,S-F

Hazchem Code: .3Z

Special Provisions: 179, 274, 331, 335, AU01

Limited Quantities: 5L

Packagings & IBCs - Packing Instruction: P001, IBC03, LP01

Packagings & IBCs - Special Packing Provisions: PP1

Portable Tanks & Bulk Containers - Instructions: T4

Portable Tanks & Bulk Containers - Special Provisions: TP1, TP29

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:	
52918-63-5	deltamethrin (ISO)
57-55-6	1,2-Propanediol
55965-84-9	Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2Hisothiazol-3-one (3:1)

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 6

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 20.07.2021

Prepared by:

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)
LC_{50}: Lethal concentration, 50 percent

(Contd. on page 7)

SAFETY DATA SHEET

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Product Name: DELTAPRO® 25 PROFESSIONAL INSECTICIDE

(Contd. of page 6)

LD_{50}: 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)
Acute Toxicity (Oral) 3: Acute toxicity – Category 3
Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A
Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2
Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A
Skin Sensitisation 1: Skin sensitisation, Hazard Category 1
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 - December 2011”

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. Sundew Solutions 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.