



**SHERWOOD CORPORATION (THAILAND)
PUBLIC COMPANY LIMITED**

SAFETY DATA SHEET DELFORCE RESIDUAL INSECTICIDE

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Effective Date: February 04, 2020

Version No. 1.1 Printed Date: March 26, 2020

SECTION 1: IDENTIFICATION

1.1 Product Description

Product Name **DELFORCE Residual Insecticide**
Other Name Deltamethrin 10 g/lit Suspension concentrate (DELFORCE)
Benefit A liquid insecticide concentrate for spray application.

1.2 Suggestions

- For using
1. After using, should be washed hand always.
 2. Wear protective equipment always before use.
- Prohibition for use
1. **DO NOT** eat and contact to skin, eyes, or inhaled.
 2. **DO NOT** dispose product and containers to watercourses.

1.3 Detail of the supplier of the product

Supplier Name : **Sherwood Chemicals Australasia PTY LTD**
Address : Level 3 , 1060 Hay Street , West Pert , WA , 6005 , Australia
Contact : Tel. +61 8 9219 4683
Fax. +61 8 9219 4672
Email : contact@sherwoodchemicals.com.au
Website : <http://www.sherwoodchemicals.com.au>

1.4 Emergency telephone number (s)

Emergency Contact : Tel. +66 421 667972

SECTION 2: HAZARDS IDENTIFICATION

Classification according to GHS

: Acute Toxicity – Oral	Category 4
: Skin Corrosion / Irritation	Category 3
: Eye Damage / Irritation	Category 1
: Hazardous to the Aquatic Environment	
- Acute Hazard	Category 1
- Chronic Hazard	Category 1



Signal Word : Warning



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Hazard Statement

Health:

- H302 : Harmful if swallowed
- H316 : Causes mild skin irritation
- H318 : Cause serious eye damage

Environment:

- H400 : Very toxic to aquatic life
- H410 : Very toxic to aquatic life with long lasting effects

Precautionary Statement

General:

- P101 : If medical advice is needed, have product container or label at hand
- P102 : Keep out of reach of children
- P103 : Read label before use

Prevention:

- P264 : Wash hands thoroughly after handling.
- P270 : Do not eat , drink or smoke when using this product.
- P273 : Avoid release to the environment.
- P280 : Wear eye protection / face protection.

Response:

- P301+P312 : If swallowed : Call a poison center or doctor / physician if you feel unwell.
- P305+P351+P338 : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 : Immediately call a poison center or doctor/physician.
- P330 : Rinse mouth.
- P332+P313 : If skin irritation occurs: Get medical advice / attention.
- P391 : Collect spillage

Storage: -

Disposal:

- P501 : Dispose of contents / container to approved method and / or local regulations.

SECTION 3: INFORMATION ON INGREDIENTS

Component (s)	CAS Number	Concentration %
Deltamethrin	52918-63-5	1.00%
Propylene Glycol	57-55-6	< 9.00 %
Other non hazardous ingredients	-	Balance to 100%



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SECTION 4: FIRST AID MEASURES

- | | |
|------------------|---|
| If Inhaled | : Move patient to fresh air. If breathing is difficult, give artificial respiration and get medical attention immediately. |
| If on Skin | : Remove contaminated clothing immediately and rinse off with plenty of water. Get medical attention immediately if irritation persist. |
| If in Eye | : Rinse carefully out with plenty of water. If you were contact lenses, remove if possible and wash away. If irritation persist, get medical attention immediately. |
| If Ingest | : If get in mouth, rinse off with plenty of water. If swallowed, <u>DO NOT</u> induce vomiting, get medical attention immediately. |
| Advice to Doctor | : Symptomatic treatment. |

SECTION 5: FIRE FIGHTING MEASURES

- | | |
|---|---|
| Extinguishing Media Suitable | : Use carbon dioxide, water spray, alcohol-resistant foam or dry chemical powder. |
| Extinguishing Media Unsuitable | : No data available. |
| Specific Hazards Rising from the Chemical | : Carbon dioxide (CO ₂), Carbon monoxide (CO) and toxic fumes. |
| Special Protective Action for Fire-Fighters | : Wear self - contained breathing apparatus and chemical-protective clothing (Self - Contained Breathing Apparatus, SCBA).
: Use water spray to cool containers. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

- | | |
|--|--|
| Personal Precautions | : Use personal protective equipment.
: Avoid contact with the skin, eyes and clothing.
: Keep unauthorized people away.
: Remove contaminated clothes, undergarments and shoes immediately. |
| Personal Protection | : Wear respiratory protective with organic vapour absorber, boots and rubber gloves. |
| Environmental Precautions | : Avoid disposal of spilled material into soil, waterways, drains and sewers.
: Avoid release to the environment. |
| Methods and Material for Containment and Cleaning Up | : For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, diatomaceous earth).
: For large amounts: Dike spillage. Pump off product. Cleaning operations should be carried out only while wearing breathing apparatus.
: Dispose of absorbed material in accordance with regulations.
: Collect waste in suitable containers, which can be labeled and sealed.
: Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.
: Waste through waste removal contractor is licensed and / or local authority control. |



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SECTION 7: HANDLING AND STORAGE

- Precautions for Safe Handling : Avoid contact with skin, eyes and clothing.
: Avoid contact the product for prolonged periods.
: Use product in area that sufficient ventilation.
: Wash hands with soap and water after handling.
: Remove contaminated clothing and protective equipment before entering eating areas.
- Precautions for Safe Storage : Keep container tightly closed.
: Keep away from heat, sunlight, flame and incompatible materials.
: Keep in normal temperature at dry, cool and well-ventilated place.
: Keep in a straight position and protect the container against physical damage.
: Keep away from food, drink and animal feeding stuffs.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

- National Exposure Standard : Not defined.
- Engineering Controls : Local exhaust ventilation may be necessary to reduce the concentration of chemical vapors.
: Ensure adequate ventilation of the working area.
- Personal Protective Equipment : Wear appropriate specific chemical protective gloves such as nitrile rubber gloves. And clean the device after use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Off-white viscous suspension liquid
- Odor : Mild specific odor.
- Odor Exposure Limits : No data available.
- pH value : 3.5 – 7.0 at 25 degree Celsius
- Melting / Freezing point : No data available.
- Boiling point / Range : No data available.
- Flash point : No data available.
- Evaporation Rate : No data available.
- Flammability of Solid and Gas : Non applicable
- Flammable Limits (LFL) % : No data available.
- (UFL) % : No data available.
- Explosion Limits (LEL) % : No data available.
- (UEL) % : No data available.
- Vapour Pressure : No data available.
- Vapour Density (air = 1) : No data available.
- Relative Density (water = 1) : No data available.
- Partition Coefficient n-Octanol / water : No data available.
- Auto - Ignition Temperature : No data available.



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Decomposition Temperature	: No data available.
Solubility in water	: Soluble to milky suspension.
Specific Gravity / Density	: 1.01 – 1.03 Kg/L at 20 degree Celsius
Viscosity	: 300 - 450 cPs at 25 degree Celsius

SECTION 10: STABILITY AND REACTIVITY

Reactivity	: No hazardous reactions if stored and handled as indicated.
Chemical Stability	: Stable under normal conditions of storage and use.
Possibility of Hazardous reactions	: No hazardous reactions if stored and handled as indicated.
Conditions to Avoid	: Avoid heat , direct sunlight and do not touch the temperature above 50°C / 122 °F
Incompatible Materials	: Strong oxidizing agent, Strong acid and base.
Hazardous Decomposition products	: Combustion or thermal decomposition will evolve carbon and nitrogen oxides and halogen compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity, Oral	: LD ₅₀ = 915.26 mg/kg (Rat) (Calculated)
Dermal	: LD ₅₀ > 5,000.00 mg/kg (Rabbit) (Calculated)
Inhalation	: LD ₅₀ > 5,000.00 mg/L (4 Hours in Rat) (Calculated)
Skin Corrosion / Irritation	: Causes mild skin irritation.
Eye Damage / Irritation	: Causes serious eye damage.
Sensitization - Skin	: Not Classified.
Sensitization - Respiratory	: Not Classified.
Germ Cell Mutagenicity	: Not Classified.
Carcinogenicity	: Not Classified.
Reproductive Toxicity	: Not Classified.
Specific Target Organ Toxicity	
- Single Exposure	: Not Classified.
- Repeat Exposure	: Not Possible to Classify.
Aspiration Hazard	: Not Possible to Classify.



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SECTION 12: ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment

Acute Hazard : Very toxic to aquatic life.

Chronic Hazard : Very toxic to aquatic life with long lasting effects.

Persistence and Degradability : No data available.

Bio-Accumulative Potential : No data available.

Mobility in Soil : No data available.

Other Adverse Effects : No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Method : Waste must be disposed of in accordance with federal, state and local environmental control regulations.
: **DO NOT** dispose into the environment, waterways, drains and sewers.
: Should not produce waste contaminated soil or water.

Container Treatment Method : **DO NOT** pierce or burn, even when empty.
: Should be disposed of in accordance with local regulations and laws in force in the country or region.
: This product is dangerous for the environment. **DO NOT** discharge to sewers, drains or watercourses.

SECTION 14: TRANSPORT INFORMATION

Regulation	UN Number	Correct Shipping Name	Classes	PG*	Symbols	Remark
ADR	UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains DELTAMETHRIN)	9	III		Hazchem code 3Z
IMDG	UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains DELTAMETHRIN (MARINE POLLUTANT))	9	III	 	Emergency schedules (Ems) F-A, S-F
IATA	UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains DELTAMETHRIN)	9	III		Cargo Packing Instruction : 914 Passenger Packing Instruction : 914

Beware ensure transportation of the container tightly closed, no leak and **DO NOT** overturned.
DO NOT delivery with food, fiber, oxidizing agent, bases, etc.



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SECTION 15: REGULATORY INFORMATION

Law Enforcement in Thailand	: Hazardous substance act be 2535.
Types of Hazardous Material	: 3 (FDA Thailand)
FDA Registration No.	: No. 774/2561
Labelling According To EU Guidelines	Xn: Harmful N: Dangerous for the environment
Risk Phrases	: R22 Harmful if swallowed. : R50 Very toxic to aquatic organisms. : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	: S2 Keep out of the reach of children. : S7/9 Keep container tightly closed and in a well-ventilated place. : S13/15 Keep away from food, drink, animal feeding stuffs and heat. : S20 When using do not eat. : S25/26 Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty water and seek medical advice. : S27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. : S36/37/39 Wear suitable protective clothing, gloves and eye / face protection. : S29/56 DO NOT empty into drains; dispose of this material and its container to hazardous or special waste collection point. : S61 Avoid release to the environment. : S62 If swallowed, DO NOT induce vomiting: seek medical advice immediately and show this container or label.

SECTION 16: OTHER INFORMATION

Information source for preparation	: European Chemicals Agency; https://echa.europa.eu/ : Toxicology Data Network, U.S. National Library of Medicine; https://toxnet.nlm.nih.gov/ : National Institute of Technology and Evaluation; http://www.safe.nite.go.jp/english/ghs/ghs_index.html : บัญชีรายชื่อวัตถุอันตราย กระทรวงอุตสาหกรรม; https://www.jetro.go.jp/ext_images/thailand/thai/pdf/hazardlist13_tha.pdf
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Disclaimer

This article is as accurately as possible complied with the best of our company's knowledge at the time documentation. Each user should read this SDS and consider the information in the context of how the material will be handle and used in the workplace including in conjunction with other products. If classification or further information is needed to ensure an appropriate risk assessment, the user should contact our technical team.



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The above information is believed to be correct but does not purpose to be all inclusive and shall be used only as a guide. No warranty is expressed or implied regarding the accuracy and completeness of the data. As such, we cannot be held liable for any injury or economic loss. Users are further reminded of the possible risks of using this material for any other purpose than those for which it was intended. The above information can be utilized only for meeting regulatory norms in regard to handling and labeling advice.

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