



# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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### 1.1 Product identifier

**Product name** DELFORCE RESIDUAL INSECTICIDE  
**Synonym(s)** DELTAMETHRIN 10 G/LT SUSPENSION CONCENTRATE (DELFORCE)

### 1.2 Uses and uses advised against

**Use(s)** INSECTICIDE

### 1.3 Details of the supplier of the product

**Supplier name** SHERWOOD CHEMICALS AUSTRALASIA PTY LTD  
**Address** Level 3, 1060 Hay Street, West Pert, WA, 6005, AUSTRALIA  
**Telephone** +61 8 9219 4683  
**Fax** +61 8 9219 4672  
**Email** [contact@sherwoodchemicals.com.au](mailto:contact@sherwoodchemicals.com.au)  
**Website** <http://www.sherwoodchemicals.com.au>

### 1.4 Emergency telephone number(s)

**Emergency** +61 421 667972

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## 2. HAZARDS IDENTIFICATION

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### 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**GHS classification(s)** Aquatic Toxicity (Chronic): Category 3

### 2.2 Label elements

#### Signal word

None allocated.

#### Pictogram(s)

None allocated.

#### Hazard statement(s)

H412 Harmful to aquatic life with long lasting effects.

#### Prevention statement(s)

P273 Avoid release to the environment.

#### Response statement(s)

None allocated.

#### Storage statement(s)

None allocated.

#### Disposal statement(s)

P501 Dispose of contents/container in accordance with relevant regulations.

### 2.3 Other hazards

No information provided.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
DELTA METHRIN	52918-63-5	258-256-6	1%
PROPYLENE GLYCOL (PROPANE-1,2-DIOL)	57-55-6	200-338-0	<9%
WATER	7732-18-5	231-791-2	Not Available
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
<b>First aid facilities</b>	No information provided.

#### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

Combustible. May evolve toxic gases when heated to decomposition.

#### 5.3 Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

#### 5.4 Hazchem code

None allocated.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

#### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

#### 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

### 7. HANDLING AND STORAGE

## PRODUCT NAME DELFORCE RESIDUAL INSECTICIDE

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for damage to containers.

### 7.3 Specific end use(s)

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Propane-1,2-diol (particulates only)	SWA (AUS)	--	10	--	--
Propane-1,2-diol (total vapour & particulates)	SWA (AUS)	150	474	--	--

#### Biological limits

No biological limit values have been entered for this product.

### 8.2 Exposure controls

#### Engineering controls

Avoid inhalation. If using indoors, ensure there is adequate natural ventilation. Increase air flow by opening windows/doors or using mechanical extraction units. Maintain vapour levels below the recommended exposure standard.

#### PPE

<b>Eye / Face</b>	Wear splash-proof goggles.
<b>Hands</b>	Wear PVC or rubber gloves.
<b>Body</b>	Wear coveralls.
<b>Respiratory</b>	Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If spraying, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	BEIGE TO WHITE LIQUID
<b>Odour</b>	SLIGHT ODOUR
<b>Flammability</b>	NON FLAMMABLE
<b>Flash point</b>	NOT RELEVANT
<b>Boiling point</b>	100°C (Approximately)
<b>Melting point</b>	< 0°C
<b>Evaporation rate</b>	AS FOR WATER
<b>pH</b>	NOT AVAILABLE
<b>Vapour density</b>	NOT AVAILABLE
<b>Specific gravity</b>	1.01
<b>Solubility (water)</b>	INSOLUBLE
<b>Vapour pressure</b>	18 mm Hg @ 20°C
<b>Upper explosion limit</b>	NOT RELEVANT
<b>Lower explosion limit</b>	NOT RELEVANT
<b>Partition coefficient</b>	NOT AVAILABLE
<b>Autoignition temperature</b>	NOT AVAILABLE

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### 9.1 Information on basic physical and chemical properties

Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE

### 9.2 Other information

% Volatiles	> 60 % (Water)
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## 10. STABILITY AND REACTIVITY

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### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization will not occur.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid) and alkalis (e.g. sodium hydroxide).

### 10.6 Hazardous decomposition products

May evolve toxic gases when heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

**Health hazard summary** May be harmful. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. Upon dilution, the potential for adverse health effects may be reduced. This product may result in skin and respiratory sensitisation. Individuals with pre-existing respiratory impairment (eg asthmatics) may be more susceptible to adverse health effects.

**Eye** Irritant. Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact.

**Inhalation** Irritant. Over exposure may result in mucous membrane irritation of the respiratory tract, coughing and headache. High level exposure may result in CNS stimulation with nervousness, salivation, dizziness, tremors, breathing difficulties (wheezing) and unconsciousness.

**Skin** Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis. May cause sensitisation by skin contact. Dermal LD50 (rat) is >10,000 mg/kg.

**Ingestion** Harmful. Ingestion may result in nausea, vomiting, diarrhoea, salivation, breathing difficulties, hyperexcitability, anxiety, lack of coordination and convulsions. Oral LD50 (rat) is >10,000 mg/kg.

<b>Toxicity data</b>	DELTAMETHRIN (52918-63-5)	
	LC50 (inhalation)	785 mg/m <sup>3</sup> /2hrs (rat)
	LD50 (ingestion)	9.4 mg/kg (rat)
	LD50 (intraperitoneal)	10 mg/kg
	LD50 (intravenous)	2.5 mg/kg (rat)
	LD50 (skin)	2 g/kg (rabbit)
	PROPYLENE GLYCOL (PROPANE-1,2-DIOL) (57-55-6)	
	LD50 (ingestion)	> 2080 mg/kg (quail)
	LD50 (intraperitoneal)	6660 mg/kg
	LD50 (intravenous)	2600 mg/kg (dog)
	LD50 (skin)	20800 mg/kg (rabbit)
	LD50 (subcutaneous)	17370 mg/kg (mouse)
	LDLo (intramuscular)	6300 mg/kg (rabbit)
	LDLo (subcutaneous)	15500 mg/kg (guinea pig)
	TDL0 (ingestion)	79 g/kg/56 weeks intermittently (child)

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Other adverse effects**

No information provided.

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Waste disposal** Residual product will be disposed of when the container is returned. Contact the manufacturer/supplier for additional information (if required).

**Legislation** Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**

CLASSIFIED AS A DANGEROUS GOOD (IN ACCORDANCE WITH IATA AND IMDG ONLY)

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
<b>14.1 UN Number</b>	None Allocated	3082	3082
<b>14.2 Proper Shipping Name</b>	None Allocated	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>14.3 Transport hazard class</b>	None Allocated	9	9
<b>14.4 Packing Group</b>	None Allocated	III	III

**14.5 Environmental hazards** No information provided

**14.6 Special precautions for user**

**Hazchem code** None Allocated  
**EMS** F-A, S-F

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Poison schedule** Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications** Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].

**Hazard codes** N Dangerous for the environment

**Risk phrases** R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** S2 Keep out of reach of children.  
 S13 Keep away from food, drink and animal feeding stuffs.  
 S23 Do not breathe gas/fumes/vapour/spray (where applicable).  
 S24/25 Avoid contact with skin and eyes.  
 S36/37 Wear suitable protective clothing and gloves.

**PRODUCT NAME DELFORCE RESIDUAL INSECTICIDE**

**Inventory listing(s)** **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**  
All components are listed on AICS, or are exempt.

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**16. OTHER INFORMATION**

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**Additional information**

**SYNERGISM - ANTAGONISM:** Ingredients in this product may act together to aggravate or reduce adverse effects. Accordingly the Exposure Standard provided for single ingredients should be considered as a guide only and all due care exercised when handling.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m <sup>3</sup>	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

**Revision history**

Revision	Description
2.0	Standard SDS Review
1.0	Standard SDS Review

**PRODUCT NAME DELFORCE RESIDUAL INSECTICIDE**

**Report status**

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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**[ End of SDS ]**