

## SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

## Section 1. Identification of the material and the supplier

Product: **DeltaMax**Product Use: Insecticide

Restriction of Use: Refer to Section 15

New Zealand Supplier: Adria Crop Protection Solutions

Address: 407 State Highway 16

Kumeu 0841, Auckland

Telephone: +64 9 412 9817 Fax: +64 9 412 9807 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)3

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 14 March 2023 v2

## Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: HSR000328** 

**Pictograms:** 









Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 3	H226	Flammable liquid and vapour.
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to terrestrial vertebrates	H432	Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates	H441	Hazardous to terrestrial invertebrates

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<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe fumes, vapours or spray.
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 protective clothing as detailed in Section 8.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
	unwell.
P303 +	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
P361+P353	clothing. Rinse skin with water/shower.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use dry chemical, water, carbon dioxide or foam for
	extinction.

Storage Code	Storage Statement
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

## Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Deltamethrin	2.5	52918-63-5
Non hazardous		

## Section 4. First Aid Measures

### Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

If on Skin Remove affected clothing and wash all exposed skin area with mild soap

and water, followed by warm water rinse. If skin irritation occurs: Get

medical advice/attention.

If Swallowed Rinse mouth. If swallowed do NOT induce vomiting. Never give anything to

an unconscious person. Call a POISON CENTER or doctor/physician.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position

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and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

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

Symptoms:

**Ingestion:** Harmful if swallowed.

**Inhalation:** Not applicable.

**Skin:** May cause mild skin irritation. **Eye:** Causes serious eye irritation.

**Chronic:** May cause damage to lungs if swallowed through repeated or prolonged

exposure. May also cause skin dryness or cracking.

## **Section 5.** Fire Fighting Measures

Hazard Type	This product is flammable. Keep away from sources of ignition. No naked lights. No smoking.
Hazards from products	May form flammable vapour-air mixture. Thermal decomposition generates: Carbon monoxide. Carbon dioxide. Nitrogen oxides. Halogens.
Suitable Extinguishing media	Small fire: Dry chemical.  Large fire: Foam. Water spray. Water fog.  Do not use a heavy water stream.  Surrounding fires: Use water spray or fog for cooling exposed containers.
Recommended protective clothing & Precautions for firefighters	Wear SCBA and chemical-protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
HAZCHEM CODE	3Y

#### Section 6. Accidental Release Measures

## **Personal precautions:**

No smoking. Eliminate every possible source of ignition. Keep public away from danger area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

## **Environmental precautions:**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

## **Spill and Disposal procedures:**

Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Place in waste containers. Dispose of waste safely, according to Local Council regulations.

## Section 7. Handling and Storage

## **Precautions for Handling:**

- Read carefully and follow all instructions.
- · Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe fumes, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

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• Apply using calibrated and maintained equipment in accordance with the NZ Standard for the Management of Agrichemicals (NZS8409).

## **Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- · Store securely out of reach of children.
- Store in a well-ventilated place. Keep cool.
- Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.
- Keep in fireproof place.
- Refer to the current standard NZS8409 Management of Agrichemicals.

Section 8 Exposure Controls / Personal Protection

## **WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance TWA STEL ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

## **Engineering Controls / Industrial Hygiene**

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations.

## **Personal Protection Equipment**



Eyes	Chemical goggles or face shield with safety glasses.
Hands	Wear suitable gloves resistant to chemical penetration e.g. nitrile rubber
	gloves with a minimum thickness of 0.4 mm.
Skin	Body protection (chemical protection suit, boots) must be chosen depending
	on activity and possible exposure.
Respiratory	Where exposure through inhalation may occur from use, approved
	respiratory protection equipment is recommended.
General	Emergency eye wash fountains and safety showers should be available in the
	immediate vicinity of any potential exposure. Keep away from food, drink
	and animal feedstuffs. No eating, drinking or smoking during use. Wash
	hands and face before breaks and after work.

#### Section 9 Physical and Chemical Properties

Appearance	Emulsifiable concentrate, Liquid
Colour	Clear to yellowish or brown liquid
Odour	Characteristic
Odour Threshold	Not available
pH	6-8
Melting/Boiling Point	Not available
Freezing Point	Not available
Flash Point	> 43 °C
Flammability	Not available

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<b>Upper and Lower Explosive Limits</b>	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	0.891 g/L
Water Solubility	Emulsifies in water
Log P Octanol / water at 20°C	Not available
Ignition Temperature	Not available
<b>Decomposition Temperature</b>	Not available
Viscosity	Not available
<b>Particle Characteristics</b>	Not available
Surface tension	Not available

# Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.	
Possibility of hazardous reactions	May release flammable gases.	
Conditions to Avoid	Open flame. Sparks. Overheating.	
Incompatible Materials	Strong acids. Strong oxidizers.	
Hazardous Decomposition	According to process conditions, hazardous	
Products	decomposition products may be generated. Thermal	
	decomposition generates: Carbon dioxide. Carbon	
	monoxide. Nitrogen oxides. Halogens.	

# Section 11 Toxicological Information

#### **Acute Effects:**

Swallowed	Harmful if swallowed. Deltamethrin = 31 mg/kg (Rat)	
Dermal	Not applicable.	Deltamethrin = 700 mg/kg (Rat)
Inhalation	Not applicable.	Deltamethrin = 0.79 mg/l (Rat) dust/mist
Eye	Causes serious eye damage.	
Skin	Not applicable.	

## **Chronic Effects:**

Carcinogenicity	Not applicable.	
Reproductive	Not applicable.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May causes damage to lungs if swallowed through prolonged or	
	repeated exposure. May also cause skin dryness or cracking.	

# Section 12. Ecotoxicological Information

Ecological effects information	Very toxic to aquatic life with long lasting effects Hazardous to terrestrial vertebrates	
oracion	Hazardous to terrestrial invertebrates	
	Trazardous to terrestrial invertebrates	
Persistence and	No data available	
degradability		
Bioaccumulation	No data available	
Mobility in Soil	No data available	
Other adverse effects	No data available	
Precautions:	Do not allow to enter waterways. VERY TOXIC TO AQUATIC ORGANISMS. DO NOT contaminate an aquatic environment with chemical or empty container. DO NOT spray over, or allow drift to drift over, an aquatic environment. Must not be applied onto or into water. DO NOT allow drift outside the target area to occur. Spray must not be applied in an	

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area where bees are foraging. Toxic to the soil
environment. Very toxic to terrestrial vertebrates. Very
toxic to terrestrial invertebrates.

<u>Individual component information (Please refer to www.epa.govt.co.nz</u> for full details):

Deltamethrin (Cas No 52918-63-5):

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Oncorhynchus mykiss Rainbow trout,Donaldson trout	96 hr	0.00025 mg/L
Chronic aquatic, fish	Fathead minnow (Pimephales promelas)	280 day	0.000017 mg/L
Acute aquatic, Crustacean	Mysid	96 hr	0.0000017 mg/L
Chronic aquatic, Crustacean	Water flea (Daphnia magna)	21 day	0.0000041mg/l
Harmful in the soil environment	Earthworm	-	28.7 mg/kg
Very ecotoxic to terrestrial vertebrates	Rat (F)	-	LD50 = 31mg/kg
Very ecotoxic to terrestrial invertebrates	Musca domestica (house fl)	-	LD50 = 0.0125 ug/g org
Bioaccumulative	Yes		
Rapidly Degradable	No		

## **Section 13. Disposal Considerations**

## **Disposal Method:**

Triple rinse container and add residue to spray tank. Return empty to container to an AgRecovery collection point for disposal.



## **Empty container precautions:**

Avoid contamination of any water supply with chemical or empty container.

Precautions or methods to avoid: Avoid release to the environment.

## Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



## Road, Rail, Sea and Air Transport

UN No	1993	
Class - Primary	3	
Packing Group	III	
Proper Shipping Name	FLAMMABLE LIQUIDS N.O.S.	
	(HYDROCARBON-SOLVENTS (AROMATIC)) (DELTAMETHRIN)	
Marine Pollutant	Yes	
Special Provisions-	If the product's individual container is below 5L/kg, it can be	
Limited Quantities	transported as a non-DG as long as the product packaging is still	
_	labelled as per DG requirements and the driver is given safety	
	information in accordance with Chapter 3.4 of the UNRTDG.	

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#### Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR000328

HSW (HS) Regulations 2017	Trigger Quantity	
Certified Handlers	Not required	
Location Certificate	500L(>5L), 1500L(<5L), 250L open	
Signage Trigger Quantities (Schedule 3)	100L	
Fire Extinguishers (Schedule 4)	500L – 2 extinguishers	
Emergency Response Plan (Schedule 5)	100L	
Secondary Containment (Schedule 5)	100L	
Tracking (Schedule 26)	Not required	
For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls	
	document - HSR000328	
HSNO Additional Controls (Restrictions of use)		
77A	The substance must not be applied onto or	
	into water.	
ACVM Act and Regulations		
ACVM Approval No	P8576	
See <u>www.foodsafety.govt.nz</u> for registration		
controls		

#### Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

#### Glossary

EC<sub>50</sub> Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

 $LC_{50}$  Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD<sub>50</sub> Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

# References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of

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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. While TCC (NZ) have 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, TCC (NZ) Ltd accept 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

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Adria, if further information is required.

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