

Product Name: Alpha-Scud 100 EC Page: 1 of 8

This revision issued: July, 2018

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **ALPHA-SCUD 100 EC**

Chemical name of active Alpha-cypermethrin (active ingredient is a pyrethroid

derivative)

Insecticide Product Use:

Refer to Section 15 Restriction of Use:

New Zealand Supplier: ADAMA New Zealand Ltd Address: Level 1/93 Bolt Road Tahunanui, 7011, Nelson

+64 3 543 8275

Telephone: +64 3 543 8274 Fax Number:

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 10 July 2018

Section 2. **Hazards Identification**

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

EPA Approval No: HSR000293

Pictograms







Toxic/Irritant Chronic **Ecotoxic**

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
3.1D	H227	Combustible liquid.	Flam. Liq. 4
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.1E (dermal)	H313	May be harmful in contact with skin.	Acute Tox. 5
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1A	H400	Very toxic to aquatic life.	Aquatic Acute 1
9.3B	H432	Toxic to terrestrial vertebrates.	-
9.4A	H441	Very toxic to terrestrial invertebrates.	-

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Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
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.
P312	Call a POISON CENTER or doctor/physician 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.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P370 + P378	In case of fire: Use dry chemical, water spray, foam or carbon dioxide 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 Ingredients

Ingredients	Wt %	CAS NUMBER.
Alpha-cypermethrin	10	67375-30-8
Non Hazardous carbon	76	Proprietary
Other ingredients not contributing to the overall classification of the substance or non hazardous	To balance	NA

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. If eye irritation persists: Get

medical advice/attention.

If on Skin Take off contaminated clothing and wash before re-use. Wash off

immediately with soap and plenty of water. If skin irritation or rash

occurs: Get medical advice/attention.

If Swallowed Wash out mouth with plenty of water. Do not induce vomiting. Never

give anything by mouth to an unconscious person. Call a POISON

CENTER or doctor/physician if you feel unwell.

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

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Harmful if swallowed.

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Skin: May be harmful if in contact with skin. Causes mild skin irritation.

Inhalation: Harmful if inhaled. **Eyes:** Not applicable.

Chronic: May cause damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

Hazard Type	Combustible Liquid
Hazardous thermal	Carbon dioxide, and if combustion is incomplete, carbon monoxide,
(de)composition	smoke and water. Fire decomposition products from this product may
products	be toxic if inhaled.
Suitable	For small fire: Dry chemical, carbon dioxide, foam, water fog.
Extinguishing	For medium-Large fire: Fine spray, or water fog.
media	
Precautions for firefighters and special protective clothing	Wear proper protective equipment. Use Self-contained breathing apparatus when in close proximity to fire. There is a slight risk of an explosion from this product if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low lying spaces, forming potentially explosive mixture. They may also flash back considerable distances.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Wear full protective clothing as detailed in Section 8. Evacuate area from unnecessary personnel.

Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Absorb in sand or other inert material. Use appropriate container to avoid environmental contamination. Major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Do not breathe fumes, 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.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- Store product in a cool, dry place preferably below 30°C in original container.
- Fluoro lined HDPE containers are the suitable packing material.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL

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Substance 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 NOV 2017 9TH EDITION.

Engineering Controls

Ensure adequate ventilation.

Personal Protection Equipment









Eyes	Safety goggles or face shield.	
Hands and	Wear chemical resistant gloves. Wear suitable protective clothing made from	
Skin	rubber, PVC. Make sure all skin area is covered.	
Respiratory	During spraying wear suitable respiratory equipment.	
General	Facilities storing or utilizing this material should be equipped with an	
	eyewash facility and safety shower. When handling do not eat, drink or	
	smoke. Wash hands thoroughly after handling. Wash clothing separately	
	before re-use.	

Section 9 Physical and Chemical Properties

Appearance	Light straw colour liquid
Odour	Charactistic (solvent)
Odour Threshold	Not applicable
pH	Not applicable
Boiling Point	Not applicable
Melting Point	Not applicable
Flash Point	>60°C ≤ 90°C
Flammability	Not applicable
Upper and Lower	Not applicable
Exposure Limits	
Explosive properties	Not applicable
Vapour Pressure	Not applicable
Density	Not applicable
Bulk Density	Not applicable
Relative Density	Not applicable
Solubilities in water	Emulsifiable
Auto-ignition	C1
Temperature	
Octanol/water partition	Not applicable
coefficient	
Volatiles	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	This product should be kept in a cool place, preferably below
	30°C. Containers should be kept dry.
Incompatible Materials	Reacts with: strong oxidizing agents.
Hazardous Decomposition Carbon dioxide, and if combustion is incomplete, carbon	
Products	monoxide, smoke and water.

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C L! 4 4	Toxicological Information
Section 11	I OVICOIOGICAL I NTORMATION
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Acute Effects:

Swallowed	Harmful if swallowed.
Dermal	May be harmful if in contact with skin.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Causes mild skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated
	exposure.

Common name: **Pvrethrin**

Acute toxicity - Oral: LD50 (rat) = >2,600mg/kg mg/kg Skin irritation: Non irritating to Rats and Rabbits

Common name: **Pyrethrin or Pyrethroid**

Carcinogenicity: Not carcinogenic Not mutagenic **Mutagenicity:**

Reproduction toxicity: Not teratogenic in animal experiments

Section 12. Ecotoxicological Information

HSNO Classes: 9.1A = Very toxic to aquatic life.

> 9.3B =Toxic to terrestrial vertebrates.

9.4A =Very toxic to terrestrial invertebrates.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Pyrethrin is extremely toxic to aquatic life, such as bluegill and lake trout while it is slightly toxic to bird species, such as mallards. Toxicity increases with higher water temperatures and acidity. Natural Pyrethrins are highly fat soluble but are easily degraded and thus do not accumulate in the body. These compounds are toxic to bees also. Because Pyrethrins-I, Pyrethrin –II, and allethrin have multiple sites in their structure that can be readily attacked by biological systems, it is unlikely that they will concentrate in the food chain.

ENVIRONMENTAL FATE:

Cypermethrin breaks down in plants to produce a variety of products. Pyrethrins have little residual effect. In stored grain, 50% or more of the applied Pyrethrins disappear during the first three or four months of storage. At least 80% of what remains is removed by handling, processing and cooking. Pyrethrins alone provide limited crop protection because they are not stable. As a result, they are often combined with small amounts of antioxidants to prolong their effectiveness. Pyrethrum compounds are broken down in water to nontoxic products. Pyrethrins are inactivated and decomposed by exposure to light and air. Pyrethrins are also rapidly decomposed by mild acids and alkalis. Stored Pyrethrin powders lose about 20% of their potency in one year. As the Pyrethrins are purified, their stability decreases; thus, pure

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Pyrethrin-I and Pyrethrin-II are the least stable of the Pyrethrins. Purified Pyrethrins are very expensive and are only available for laboratory uses.

Section 13. Disposal Considerations

Disposal Method: Triple rinse empty container and add rinsate to spray tank. Do not burn empty containers that have not been rinsed. Burn in appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill or if appropriate, recycle or take to an Agrecovery collection site.

Precautions or methods to avoid:

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

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road and Rail Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIROMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.

(100g/L ALPHA-CYPERMETHRIN)

National transport regulations: Do not carry this product on a passenger service vehicle.

Air Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIROMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.

(100g/L ALPHA-CYPERMETHRIN)

Marine Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIROMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.

(100g/L ALPHA-CYPERMETHRIN)

Marine Pollutant: Yes

Special Provisions:

If the product's individual container is below 5L, it can be 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.

Segregation:

Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

Section 15 Regulatory Information

EPA Approval Code: HSR000293

HSNO Classification: 3.1D, 6.1D(oral), 6.1E(dermal), 6.3B, 6.9B, 9.1A, 9.3B, 9.4A

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	controls document - HSR000293		
For all further controls	Refer to EPA website (<u>www.epa.govt.nz</u>) for		
conditions			
See www.nzfsa.govt.nz/acvm for registration			
Registered pursuant to the ACVM Act 1997,	No. P7380		
ACVM Act and Regulations			
	class 9 pesticides		
HPC Notice Part 4 Subpart C	Qualifications required for application of		
	substances		
HPC Notice Part 4 Subpart A	Site and storage controls for class 9		
The Notice Fait + Clause 40	and plant growth regulators		
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides		
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate		
Hazardous Property Controls Notice 2017	Favinment for class 0 substances must be		
Harandana Buanantu Cantuala Natica 2017	into water.		
77A	This substance must not be applied onto or		
HSNO Additional Controls (Restrictions of use)			
Secondary Containment	100L(9.1A)		
Emergency Response Plan	100L(9.1A)		
Signage Trigger Quantities	100L(9.1A)		
Tracking Trigger Quantities	Not required		
Location Certificate	Not required		
Certified Handlers	Not required		

HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity

Section 16	Other Information
Glossary	
EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms
	inhaling or ingesting it.
LD50	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 Nov 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 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 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

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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 the Adama, if further information is required.

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