



## SAFETY DATA SHEET

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

Product: **APOLLO 500 SC**  
Chemical name of active: 3,6-bis(ochlorophenyl)-1,2,4,5-tetrazine  
Product Use: Miticide  
Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd  
Address: Level 1/93 Bolt Road  
Tahunanui, 7011, Nelson  
Telephone: +64 3 543 8275  
Fax Number: +64 3 543 8274

**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:** HSR000775

#### Pictograms



Chronic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.9B	H373	May Cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P103	Read label before use.
P260	Do not breathe fumes, vapours or spray.
P273	Avoid release to the environment.

Response Code	Response Statement
P314	Get medical help if you feel unwell.

<b>Storage Code</b>	<b>Storage Statement</b>
None Allocated	

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Refer to Section 13

<b>Section 3. Composition / Information on Ingredients</b>
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<b>Ingredients</b>	<b>Value</b>	<b>CAS NUMBER.</b>
Clofentezine	500g/l	7415-24-5
Other ingredients not contributing to the overall classification of the substance or non hazardous	To balance	NA

<b>Section 4. First Aid Measures</b>
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Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	Wash off immediately with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.
If Swallowed	Wash out mouth with plenty of water. 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:**

<b>Ingestion:</b>	Not applicable.
<b>Skin:</b>	Not applicable.
<b>Inhalation:</b>	Not applicable.
<b>Eyes:</b>	Not applicable.
<b>Chronic:</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Notes to a physician:</b>	There is no specific antidote. Treat symptomatically and give supportive therapy.

<b>Section 5. Fire Fighting Measures</b>
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<b>Hazard Type</b>	Not Flammable.
<b>Hazardous thermal (de)composition products</b>	Emits toxic fumes
<b>Suitable Extinguishing media</b>	Dry chemical, water spray, foam, carbon dioxide.
<b>Precautions for firefighters and special protective clothing</b>	Wear protective clothing, Self-contained breathing apparatus and do not breathe fumes.
<b>HAZCHEM CODE</b>	<b>None allocated</b>

## 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.

### Methods and material for containment and cleaning up

Collect and contain as much free liquid as possible. Absorb in sand or other inert material. Disposal according to the local legislation. Wash away remainder with water and soap – collect and contain as much free liquid as possible for later disposal.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Do not breathe fumes, vapours or stray.
- Wash hands after working with this product.
- Avoid release to the environment.

### Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs.
- As a Class 9 Substance with Ecotoxicity Classifications storage of Apollo Miticide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations.

## Section 8 Exposure Controls / Personal Protection

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

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>

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



<b>Eyes</b>	Safety goggles or face shield.
<b>Hands and Skin</b>	Wear chemical resistant gloves (PVC or Nitrile), wear suitable protective clothing.
<b>Respiratory</b>	Not required.
<b>General</b>	When handling do not eat, drink or smoke. Wash hands thoroughly after handling.

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Red (magenta) Liquid
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	6-7.5
<b>Boiling Point</b>	Not applicable
<b>Melting Point</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Not applicable
<b>Upper and Lower Exposure Limits</b>	Not applicable
<b>Vapour Pressure (air=t)</b>	As for water
<b>Density</b>	Not applicable
<b>Bulk Density</b>	Not applicable
<b>Relative Density</b>	Not applicable
<b>Solubilities in water</b>	Miscible
<b>Auto-ignition Temperature</b>	Not applicable
<b>Octanol/water partition Coefficient</b>	log Pow= 3.1 (Clofentezine)
<b>Volatiles</b>	Not applicable

**Section 10. Stability and Reactivity**

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	Avoid heat.
<b>Incompatible Materials</b>	None known.
<b>Hazardous Decomposition Products</b>	None known under conditions of normal use and storage.

**Section 11 Toxicological Information****Acute Effects:**

<b>Swallowed</b>	Not applicable. LD50 (rat) > 5,000 mg/kg
<b>Dermal</b>	Not applicable. LD50 (rat) > 5,000 mg/kg
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Slightly irritating (rabbit).
<b>Skin</b>	Slightly irritant (rabbit).

**Chronic Effects:**

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

**Section 12. Ecotoxicological Information**

HSNO Classes: 9.3C = Harmful to terrestrial vertebrates.

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

**Common name: Clofentezine**

**Mobility:**

Immobile in soil

**Persistence/degradability:**

Soil DT50 = 30 – 135 days

Water DT50 = 248 hours (pH5.0), 34 hours (pH 7.0) 4 hours (pH 9.0)

**Bioaccumulative potential:**

Does not bioaccumulate in fish

BCF = 248

Ecotoxicity:

**Fish**

Birds LD50 > 3000 mg/kg (mallard duck)

Bees: Low toxicity

**Daphnia** LC50 = 200mg/L(48 hours)

**Algae** EC50 = 100 mg/L (72 hours)

**Fish:** LC50 = 20mg/L (rainbow trout) (96 hours)

LC50 = 200mg/L (bluegill sunfish) (96 hours)

Do not allow to enter waterways.

### Section 13. Disposal Considerations

**Disposal Method:** Container Disposal - Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Avoid contamination of any water supply with product or empty container.

**Precautions and methods to avoid:** Do not allow product to enter waterways.

### Section 14 Transport Information

**This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012**

### Section 15 Regulatory Information

EPA Approval Code: HSR000775

HSNO Classification: 6.9B, 9.3C

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handlers	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L(9.3C)
Emergency Response Plan	Not required
Secondary Containment	Not required
<b>HSNO Additional Controls (Restrictions of use)</b>	
77A	This substance must not be applied onto or into water.
<b>Hazardous Property Controls Notice 2017</b>	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances

<b>ACVM Act and Regulations</b>	
Registered pursuant to the ACVM Act 1997, See <a href="http://www.nzfsa.govt.nz/acvm">www.nzfsa.govt.nz/acvm</a> for registration conditions	No. P7251
<b>For all further controls</b>	Refer to EPA website ( <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> ) for controls document - HSR000775

## **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 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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Please contact the Adama, if further information is required.

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