



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **APOLLO MITICIDE**
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
E-mail: nzorders@adama.com

**Emergency Telephone: 0800 764 766 (National Poison Centre)
0800 734 607 (24hr Emergency Response)**

Date of SDS Preparation: 24 July 2023

Section 2. Hazards Identification

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

HSNO Approval No: HSR000775

Pictograms



Signal Word: **Warning**

| HSNO Classification | Hazard Code | Hazard Statement |
|---|-------------|--|
| Specific target organ toxicity (repeated exposure) Category 2 | H373 | May Cause damage to organs through prolonged or repeated exposure. |
| Hazardous to terrestrial vertebrates | H433 | Harmful to terrestrial vertebrates. |

| Prevention Code | Prevention Statement |
|-----------------|--|
| P102 | Keep out of the reach of children. |
| P103 | Read label carefully before use and follow all instructions. |
| P260 | Do not breathe fumes, vapours or spray. |
| P273 | Avoid unintended release into the environment. |

| 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. |

| Storage Code | Storage Statement |
|----------------|-------------------|
| None Allocated | |

| | |
|----------------------|---------------------------|
| Disposal Code | Disposal Statement |
| P501 | Refer to Section 13 |

Section 3. Composition / Information on Ingredients

| Ingredients | Value | CAS NUMBER. |
|--|------------|-------------|
| Clofentezine | 500g/l | 7415-24-5 |
| 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. Continue rinsing. If eye irritation occurs: 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:

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

Section 5. Fire Fighting Measures

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

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 unintended release into 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.

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 NOV 2017 9TH EDITION.

Engineering Controls

Ensure adequate ventilation.

Personal Protection Equipment

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

Section 9 Physical and Chemical Properties

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

Section 10. Stability and Reactivity

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

Section 11 Toxicological Information**Acute Effects:**

| | |
|-------------------|--|
| Swallowed | Not applicable. LD50 (rat) > 5,000 mg/kg |
| Dermal | Not applicable. LD50 (rat) > 5,000 mg/kg |
| Inhalation | Not applicable. |
| Eye | Not applicable. |
| Skin | Not applicable. |

Chronic Effects:

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

Section 12. Ecotoxicological Information

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

Birds LD50 > 3000 mg/kg (mallard duck)

Bees: Low toxicity

Fish

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)

Section 13. Disposal Considerations

Disposal Method: Dispose of this product only by using according to the label or at an approved landfill.

Container Disposal: Triple rinse container and add rinsate to spray tank. Empty containers and product should not be burnt. Dispose of container in a suitable landfill or take to an Agrecovery collection site. Do not use container for any other purpose.



Precautions: Do not allow product to enter waterways.

Disposal methods to avoid: Do not burn product or container.

Section 14 Transport Information

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

Section 15 Regulatory Information

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

HSNO Approval Code: HSR000775

HSNO Classification: Specific target organ toxicity (repeated exposure) Category 2, Hazardous to terrestrial vertebrates.

| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity |
|---|---|
| Certified Handlers | Not required |
| Location Certificate | Not required |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | 1000 L |
| Emergency Response Plan | Not required |
| Secondary Containment | Not required |
| HSNO Variation of Controls | |
| Variation to Hazardous Property Controls Notice Part 4B | This substance must not be applied onto or into water. |
| Hazardous Property Controls Notice 2017 | |
| HPC Notice Part 1 | Hazardous Property Controls preliminary provisions |
| HPC Notice Part 3 | Hazardous substances in a place other than a workplace |
| HPC Notice Part 4 Subpart A | Substances that are hazardous to the environment: Site and storage controls |
| HPC Notice Part 4 Subpart B | Use of substances that are hazardous to the environment |
| HPC Notice Part 4 Clause 47 | Equipment for environmentally hazardous substances must be appropriate |
| HPC Notice Part 4 Subpart C | Qualifications required for the application of substances that are hazardous to the environment |
| ACVM Act and Regulations | |
| Registered pursuant to the ACVM Act 1997, See www.nzfsa.govt.nz/acvm for registration conditions | No. P7251 |
| For all further controls | Refer to EPA website (www.epa.govt.nz) for controls document - HSR000775 |

Section 16 Other Information

Glossary

| | |
|----------------------|---|
| ACVM | Agricultural Compounds and Veterinary Medicines Act 1997. |
| EC50 | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority. |
| HSNO | Hazardous Substances and New Organisms Act 1996. |
| HSW | Health and Safety at Work Act 2015. |
| HSW (HS) Regulations | Health and Safety at Work (Hazardous Substances) Regulations 2017. |
| 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. |
| 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 issued by Adama New Zealand Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which is held by Adama New Zealand Ltd or has been 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. While Adama New Zealand Ltd 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, Adama New Zealand 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.

Issue Date:

24 July 2023

Review Date:

24 July 2028