



## SAFETY DATA SHEET ATRANEX 50 SC HERBICIDE

### Section 1: Identification of the Substance and Supplier

**Product name:** ATRANEX 50 SC Herbicide  
**Chemical name of active Ingredient(s):** 6-Chloro-N<sup>2</sup>-ethyl-N<sup>4</sup>-isopropyl-1,3,5-triazine-2,4-diamine  
**Supplier:** ADAMA New Zealand Limited  
Level 1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand  
P.O.Box 1799, Nelson New Zealand.  
**Telephone:** +64 3 543 8275 Fax: +64 3 543 8274  
**Emergency Telephone:** 0800 POISON (0800 764 766)

### Section 2: Hazards Identification

**Hazard Classifications:** 6.1D, 6.3B, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C

#### TOXICITY

##### Warning -

May be harmful if swallowed, inhaled or absorbed through the skin.

May cause mild skin irritation.

May cause sensitization from prolonged skin contact.

May cause organ damage from repeated oral exposure at high doses.

Avoid skin contact.

#### ECOTOXICITY

Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

Very toxic in the soil environment. Harmful to terrestrial vertebrates.

### Section 3. Composition/information on Ingredients

Substance/preparation	Preparation				
<u>Information on hazardous ingredients *</u>					
Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Atrazine	1912-24-9	43-47	217-617-8	Xn,N	R43-48/22/-50/53

- Occupational Exposure Limit(s), if available, are listed in section 8

### Section 4: First-Aid Measures

**First-aid measures:** Remove victim from area of exposure. Wash off remaining material with plenty of water.  
**Inhalation:** Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention.  
**Ingestion:** Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.  
**Skin contact:** Remove contaminated clothing. Wash away remainder with water and soap.  
**Eye contact:** Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.  
**Notes to a physician:** There is no specific antidote. Treat symptomatically and give supportive therapy.  
**Protection of first-aiders:** Use appropriate protection (see section 8).



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### Section 5: Fire-Fighting Measures

#### Extinguishing media

- Suitable:** Dry chemical, water spray, foam, carbon dioxide.  
**Hazardous thermal (de)composition products:** Chloride compounds and nitrogen oxides  
**Protection of fire-fighters:** Self-contained breathing apparatus and total protection required in enclosed areas.

### Section 6: Accidental Release Measures

- Personal precautions:** Wear suitable protective clothing.  
**Environmental precautions:** Do not discharge into drains or the environment.  
**Methods for cleaning up:** Absorb remainder in sand or other inert material. Dispose of in an authorized waste collecting point.

### Section 7: Handling and Storage

- Handling:** Ventilation required.  
**Storage:** Keep only in the original container. Keep in a cool, dry, well ventilated place away from direct sunlight.  
As a Class 9 Substance with Ecotoxicity Classifications, storage of Atrane SC Herbicide must be carried out in such a manner as to prevent contamination of waterways. Stores containing more than 100L of Atrane SC Herbicide require bunding and are subject to signage. Storage must generally be in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).

- Packaging materials:** High density polyethylene extrusion blow containers. Polyethylene-lined metal drums.

### Section 8: Exposure Controls/Personal Protection

- Engineering measures:** Ventilation required.  
**Hygiene measures:** When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

#### Occupational Exposure Limits

- Common name:** Atrazine  
**TLV (USA):** 5 mg/m<sup>3</sup>  
**"MAK" (Germany):** 2 mg/m<sup>3</sup>  
**OEL (United Kingdom):** 10 mg/m<sup>3</sup>

#### Personal protective equipment:

- Respiratory system:** Respiratory protection is not required if good ventilation is maintained.  
**Skin and body:** Wear suitable protective clothing. Chemical resistant boots.  
**Hands:** Chemical resistant gloves.  
**Eyes:** Safety goggles or face shield.

### Section 9: Physical and Chemical Properties

- Physical state:** Liquid  
**Colour:** White  
**Odour:** Faint odour  
**Boiling point:** 100°C (Water)  
**Density:** 1.11 ± 0.02 g/mL @ 20°C  
**Vapour pressure:** 0.04 mPa @ 25°C (Atrazine)  
**Solubility in water:** 28 ppm @ 20°C (Atrazine)  
**Octanol/water partition coefficient:** log = 2.44 (Atrazine)



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pH: 6-8  
CIPAC, MT 75  
Flammability: Not flammable  
Explosion properties: Not Explosive  
Oxidation properties: Not oxidizing

### Section 10: Stability and Reactivity

Stability: Not subject to polymerization  
Materials to avoid: Oxidizing agents, acids and alkali.  
Hazardous reactions : None  
Hazardous decomposition products: Chloride compounds and nitrogen oxides.

### Section 11. Toxicological Information

#### Preparation

Acute toxicity - Oral: LD<sub>50</sub> (rat) > 2,540 mg/kg  
Acute toxicity - Dermal: LD<sub>50</sub> (rat) > 5,000 mg/kg  
Acute toxicity - Inhalation: LC<sub>50</sub> (rat) > 5 mg/L (4 hours)  
Skin irritation: Slightly irritating (rabbit).  
Eye irritation: Slightly irritating (rabbit).  
Sensitization : Moderate sensitizer (guinea-pig)  
  
Common name: **Atrazine**  
Chronic toxicity: NOEL (rat): 10ppm  
Carcinogenicity: EPA : Group C  
EU : Category 3  
IARC : Group 2B  
  
Mutagenicity: Not mutagenic  
Reproduction toxicity: NOEL (rat): 50 ppm (2 generation)  
Other information : Teratogenicity - NOEL (rat): 25 mg/kg/day.

### Section 12: Ecological Information

Ecotoxicity: **Fish**  
LC<sub>50</sub> (96 hours) rainbow trout = 4.6 mg/L  
carp = 80 mg/L  
**Daphnia similis**  
EC<sub>50</sub> (48 hours) = 31 mg/L  
Algae (selenastrum capricornutum)  
EC<sub>50</sub> (96 hours) = 0.2 mg/L  
Very toxic to aquatic organisms  
  
**Common name:** **Atrazine**  
**Mobility:** Soil - Moderately mobile  
Koc = 39-173 mL/g  
Kd = 0.2 . 18 mL/g  
  
**Persistence/degradability:** The product is not persistent. Half-life time (t<sub>1/2</sub>): 16-77 days  
Degradation is primarily via: chemical hydrolysis  
**Water**  
DT<sub>50</sub> (natural water) 10-105 days  
  
**Bioaccumulative potential:** Bioaccumulation in aquatic organisms is expected.  
**Ecotoxicity:** **Fish**  
LC<sub>50</sub> (96 hours) rainbow trout = 4.5-11 mg/L  
Common carp = 76 mg/L  
catfish = 7.6 mg/L



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bluegill sunfish = 16 mg/L  
guppy = 4.3 mg/L

NOEC (21 days) rainbow trout (oncorhynchus mykiss)

### Daphnia magna

EC<sub>50</sub> (24 hours) = 87 mg/L

NOEC (21 days) = 0.04 mg/L

Algae (selenastrum capricornutum)

EC<sub>50</sub> (72 hours) = 0.13 mg/L

### Birds

LD<sub>50</sub> Bobwhite quail = 9 mg/kg

LD<sub>50</sub> Mallard duck >2,000 mg/kg

LD<sub>50</sub> Japanese quail = 4,237 mg/kg

LD<sub>50</sub> Japanese quail >1,000 ppm (8 days)

### Bees

Oral LD<sub>50</sub> > 100µg/bee

Contact LD<sub>50</sub> 0 > 97µg/bee

Toxic to fish and aquatic organisms. Low toxicity: birds, Non toxic: Bees

## Section 13: Disposal Considerations

**Methods of disposal:** Triple rinse container and add residue to spray tank. Recycle empty container, otherwise crush and bury in a suitable landfill.

## Section 14: Transport Information

**UN Number** 3082  
**Proper shipping name** Environmentally hazardous substance, Liquid, N.O.S. (Atrazine)  
**DG Class** 9  
**Packing Group** III  
**Hazchem Code** 2X  
**Marine Pollutant** Yes  
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**National transport regulations:** Do not carry this product on a passenger service vehicle.

**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

### New Zealand Regulatory Information:

**NZFSA Approval:** Registered pursuant to the ACVM Act 1997. No P7245  
See [www.nzfsa.govt.nz/acvm](http://www.nzfsa.govt.nz/acvm) for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval No HSR000394  
See [www.ermanz.govt.nz](http://www.ermanz.govt.nz) for registration conditions.

**HSNO Classifications:** 6.1D, 6.3B, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C





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Ecotoxic

**APPROVED HANDLER** - This product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.

**RECORD KEEPING** - Records of use must be kept under certain circumstances . see The New Zealand Standards for Management of Agrichemicals (NZS8409) for details.

### Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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#### **HISTORY**

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