



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **ATRANEX WG Herbicide**
Chemical name of active: 2-Chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine
Product Use: Herbicide
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: HSR002704

Pictograms



Toxic



Chronic



Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
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
9.2A	H421	Very toxic to the soil environment.	-
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

P273	Avoid release to the environment.
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Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical help 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.

Storage Code	Storage Statement
None Allocated	<p>Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs.</p> <p>As a Class 9 Substance with Ecotoxicity Classifications, storage of Atranex WG Herbicide 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 (NZS 8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations. See Safety Data Sheet for further information.</p>

Disposal Code	Disposal Statement
P501	Refer to Section 13

Section 3. Composition / Information on Ingredients

Ingredients	Wt %	CAS NUMBER.
Atrazine	88-92	1912-24-9
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 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:

Ingestion:	Harmful if swallowed.
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	Chloride compounds and nitrogen oxides.
Suitable Extinguishing media	Dry chemical, water spray, foam, carbon dioxide.
Precautions for firefighters and special protective clothing	Self-contained breathing apparatus and total protection required in enclosed areas.
HAZCHEM CODE	2Z

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

Sweep up material and place in waste containers. Dispose of container in a suitable landfill or take to an Agrecovery collection site.

Section 7. Handling and Storage**Precautions for Handling:**

- Read label before use.
- Do not breathe dust.
- Ventilation is required.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- 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 Atranex WG Herbicide must be carried out in such a manner as to prevent contamination of waterways. Stores containing more than 100kg of Atranex WG 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).

Section 8 Exposure Controls / Personal Protection**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Atrazine [1912-24-9]		5		

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, wear suitable protective clothing.
Respiratory	Dusk mask is required.

Section 9 Physical and Chemical Properties

Appearance	Whitish granules
Odour	Faint Odour
Odour Threshold	Not applicable
pH	6-7
Boiling Point	Not applicable
Melting Point	172 – 175°C
Flash Point	Not applicable
Flammability	Not applicable
Upper and Lower Exposure Limits	Not applicable
Vapour Pressure	0.04 mPa @ 25°C (Atrazine)
Density	Not applicable
Bulk Density	Not applicable
Relative Density	Not applicable
Solubilities in water	28 ppm @ 20°C (Atrazine)
Auto-ignition Temperature	Not applicable
Octanol/water partition Coefficient	log = 2.44 (Atrazine)
Volatiles	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	None known.
Incompatible Materials	Oxidizing agents, acids and alkali.
Hazardous Decomposition Products	Chloride compounds and nitrogen oxides.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. LD50 (rat) > 5,512 mg/kg
Dermal	Not applicable. LD50 (rat) > 5,000 mg/kg
Inhalation	Not applicable. LC50 (rat) > 2.07 mg/L (4 hours)
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.

Atrazine

Chronic toxicity: NOEL (rat): 10ppm
 Carcinogenicity: EPA : Group C
 EU : Carc. 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. Ecotoxicological Information

HSNO Classes: 9.1A = Very toxic to aquatic life.
 9.2A = Very toxic to the soil environment.
 9.3C = Harmful to terrestrial vertebrates.

Ecotoxicity:**Fish**

LC50 (96 hours) rainbow trout = 4.5-11 mg/L
 Common carp = 76 mg/L
 Catfish = 7.6 mg/L
 Bluegill sunfish = 16 mg/L
 Guppy = 4.3 mg/L
 NOEL (21 days) rainbow trout = 0.06 mg/L

Daphnia magna

EC50 (48 hours) = 87 mg/L
 NOEL (21 days) = 0.04 mg/L
Algae (selenastrum capricornutum)
 EC50 (72 hours) = 0.13 mg/L

Birds

LD50 Bobwhite quail = 940 mg/kg
 LD50 Mallard duck >2,000 mg/kg
 LD50 Japanese quail = 4,237 mg/kg
 LD50 Japanese quail >1,000 ppm (8 days)

Bees

Oral LD₅₀ > 100ug/bee
 Contact LD50 > 97ug/bee

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

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

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_{1/2}): 16-77 days
Degradation is primarily via: chemical hydrolysis

Water

DT50 (natural water) 10-105 days

Bioaccumulative potential: Bioaccumulation in aquatic organisms is expected

Section 13. Disposal Considerations

Disposal Method: Puncture or shred and bury empty bags in a local authority landfill. If no landfill is available, bury the bags below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty bags and product should not be burnt. Dispose of the product only by using according to the label, or at an approved landfill. Do not contaminate ponds, waterways and ditches with product or used container. Dispose of container in a suitable landfill or take to an Agrecovery collection site. Do not use container for any other purpose

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

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: 3077
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Atrazine)

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

Air Transport

UN No: 3077
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fipronil)

Marine Transport

UN No: 3077
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fipronil)
Marine Pollutant: Yes

Special Provisions:

If the product's individual container is below 5L/kg, 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: HSR002704
 HSNO Classification: 6.1D(oral), 6.9B, 9.1A, 9.2A, 9.3C

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	100L(9.1A)
Emergency Response Plan	100L(9.1A)
Secondary Containment	100L(9.1A)
HSNO Additional Controls (Restrictions of use)	
77A	This substance must not be applied onto or into water.
Hazardous Property Controls Notice 2017	
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
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides
ACVM Act and Regulations	
Registered pursuant to the ACVM Act 1997, See www.nzfsa.govt.nz/acvm for registration conditions	No. P7464
For all further controls	Refer to EPA website (www.epa.govt.nz) for controls document - HSR002704

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

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Please contact the Adama, if further information is required.

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