

Product Name: Atranex Flow

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This revision issued: March, 2023

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Atranex Flow

Chemical name of active: Atrazine

Product Use: Selective herbicide for the post emergence control of

certain grass and broadleaf weeds in maize, sweet corn,

established Lucerne and linseed.

Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd Address: Level 1/93 Bolt Road

Tahunanui, Nelson +64 3 543 8275 nzorders@adama.com

Emergency Telephone: 0800 764 766 (National Poison Centre)

0800 734 607 (24hr Emergency Response)

Date of SDS Preparation: 20 March 2023

Section 2. Hazards Identification

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

HSNO Approval No: HSR000534

Pictograms

Telephone:

Email:







Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement
Acute oral toxicity Category 4	H302	Harmful if swallowed.
Specific target organ toxicity (repeated exposure) Category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H421	Very toxic to the soil environment.
Hazardous to terrestrial vertebrates	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 fumes, vapours and spray.
P264	Wash hands thoroughly after handling.

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P270	Do not eat, drink or smoke when using this product.
P273	Avoid unintended release into the environment.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
	unwell.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Atrazine	50	1912-24-9
Non hazardous	To bal	-

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

If on Skin Wash with plenty of soap and water. If skin irritation occurs: get medical

advice/attention.

If Swallowed Wash out mouth thoroughly with water. Never give anything to the

mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to

prevent vomit entering the lungs. 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. Nausea, stomach cramps

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

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Section 5. Fire Fighting Measures

Hazard Type	Non Flammable.
Hazards from	May give off toxic carbon monoxide, cyanides, and hydrogen
combustion products	chloride
	in a fire.
Suitable Extinguishing	Foam, carbon dioxide, dry chemicals.
media	
Precautions for	Firefighters must wear self-contained breathing apparatus,
firefighters and special	protective gloves and clothing.
protective clothing	
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

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

Environmental precautions

Prevent further leakage or spillage if safe to do so. 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 spill with an inert material such as sand, sawdust or clay and place in suitable labeled container. Dispose as per Local Regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not breathe fumes, vapours and spray.
- In case of inadequate ventilation wear respiratory protection.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid unintended release into the environment.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- Store out of direct sunlight.
- Do not store near waterways.
- · Do not store where damage may occur.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL
Substance ppm mg/m3 ppm mg/m3

Atrazine [1912-24-9]

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.

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Engineering Controls

Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of dust.

Personal Protection Equipment

Eyes	Not normally required. But should be used as a matter of good practice when handling any chemical substance.
Hands and	Wear nitrile rubber gloves with a minimum layer thickness of 0.11 mm.
Skin	Break through time: 480 min
Respiratory	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards.
General	Do not eat, drink or smoke when using this product. Be careful not to contaminate yourself when removing contaminated clothing.

Section 9 Physical and Chemical Properties

Annoaranco	Creamy liquid
Appearance	
Odour	Not applicable
Odour Threshold	Not applicable
pH	Not applicable
Boiling Point	100°C (water)
Melting Point	Not applicable
Flash Point	Not applicable
Flammability	Not applicable
Upper and Lower	Not applicable
Exposure Limits	
Vapour Pressure	Not applicable
Bulk Density	Not applicable
Bulk Density	Not applicable
Specific Gravity	1.10 - 1.30
Solubility's	Soluble/dispersible in water.
Partition Coefficient:	Not applicable
Auto-ignition	Not applicable
Temperature	
Kinematic viscosity	Not applicable
mm2/s 40 °C	
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.	
Conditions to Avoid	Avoid direct sunlight; avoid generation of dust and excessive	
	heat.	
Incompatible Materials	Incompatible with alkaline materials.	
Hazardous Decomposition	May give off toxic carbon monoxide, cyanides, and hydrogen	
Products	chloride in a fire.	

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Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. LD 50 = Rat >3000mg/kg
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

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.

Individual component information:

Acute Toxicity:

Chemical Name	Oral - LD50	Dermal - LD50	Inhalation - LC50
Atrazine (1912-24-9)	750 mg/kg	-	-
	(rabbit)		

Section 12. Ecotoxicological Information

Persistence and degradability	No data available
Bioaccumulation	Strong evidence to show that atrazine can be
	bioaccumulated in aquatic, vertebrate and invertebrate
	species.
Mobility in Soil	Atrazine is persistent in soil for up to 18 years
Other adverse effects	No data available

Individual component information (Please refer to www.epa.govt.co.nz for full details):

Atrazine (1912-24-9):

Attazine (1912 21 9)				
Route	Species	Duration	Value LC50/EC50	
Acute aquatic, Crustacean	Brown shrimp (Penaeus aztecus)	48 hr	1.0mg/L	
Acute aquatic, Algal	Scenedesmus subspicatus (Green algae)	96 hr	0.0127mg/L	
Acute aquatic, Fish	Cyprinodon variegatus (Sheepshead minnow)	96 hr	2.80mg/l	
Very ecotoxic in the soil environment	Carrot (Daucus carota)	28 days	EC25 = 0.0006 mg/kg dry soil	
Bioaccumulative	No			
Rapidly Degradable	No			

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Section 13. Disposal Considerations

Disposal Method: 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: Do not allow product to enter waterways.

Disposal 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



Road and Rail Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (2-Chloro-4-ethylamine-6-isopropylamine-1,3,5-

triazine).

Air Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (2-Chloro-4-ethylamine-6-isopropylamine-1,3,5-

triazine).

Marine Transport

UN No: 3082 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (% 2-Chloro-4-ethylamine-6-isopropylamine-1,3,5-

triazine).

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.

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Section 15 Regulatory Information

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

HSNO Approval Code: HSR000534

HSNO Classification: Acute oral toxicity Category 4, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to soil organisms, Hazardous to terrestrial vertebrates.

HSW (HS) Regulations 2017	Trigger Quantity		
Certified Handler	Not required		
Location Certificate	Not required		
Signage Trigger Quantities (Schedule 3)	100 L		
Emergency Response Plan (Schedule 5)	100 L		
Secondary Containment (Schedule 5)	100 L		
Tracking (Schedule 26)	Not required		
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 Clause 48	Record of application of agrichemicals		
HPC Notice Part 4 Clause 52	Agrichemicals that are hazardous to the		
	aquatic environment must not be applied to		
	water		
HPC Notice Part 4 Subpart C	Qualifications required for the application of		
	substances that are hazardous to the		
460/04 4 1 1 5 1 1 1	environment		
ACVM Act and Regulations			
ACVM Approval No	P008693		
Tolerable Exposure Level (TEL)	No TEL set		
Environmental Exposure Level (EEL)	No EEL set		

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.

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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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