## Safety Data Sheet



# Atraflo

## Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	RAVENSDOWN ATRAFLO
Product Code:	7966090 (20 Litres)
Recommended Use:	Selective herbicide for the control of certain grass and broadleaf weeds in maize, sweetcorn, established Lucerne and linseed.
Restrictions of Use:	Refer to Section 15
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - tell operator what service is needed: Fire, Ambulance or Police
Date of SDS Preparation	15 April 2024 v2

## Section 2: HAZARD IDENTIFICATION

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

EPA Approval No:	HSR000534
Pictograms:	
Signal Word:	Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Specific target organ toxicity – single exposure Cat. 2	H371	May cause damage to organs.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.	H421	Hazardous to soil organisms
Hazardous to terrestrial vertebrates.	H433	Hazardous to terrestrial vertebrates

Prevention Code	Prevention Statement	
P102	Keep out of reach of children.	
P103	Read carefully and follow all instructions.	
P260	Do not breath spray, vapours or mist.	
P264	Wash hands thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
Response Code	Response Statement	
P101	If medical advice is needed, have product container or label at hand.	
P330	Rinse mouth.	

P391	Collect spillage.	
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	
P308 + P311	IF exposed or concerned: Get medical advice/ attention.	
Storage Code	Storage Statement	
P405	Store locked up.	
Disposal Code	Disposal Statement	
P501	Dispose of according to Local Regulations or Authorities	

#### Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT	
Atrazine	1912-24-9	50%	
Non-hazardous ingredients		10%	

#### Section 4: FIRST AID MEASURES

Routes of Exposure:		
If in eyes:	Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.	
If on skin:	Remove contaminated clothing and wash affected area thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.	
If ingested:	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.	
If inhaled:	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.	
Most important symp	toms and effects, both acute and delayed	
Symptoms:		
Eyes:	Not applicable.	
Skin:	Not applicable.	
Ingested:	Harmful if swallowed.	
Inhaled:	Not applicable.	
Chronic:	May cause damage to organs through prolonged or repeated exposure.	
Notes to Doctor:	No specific antidote. Treat symptomatically	

## Section 5: FIRE FIGHTING MEASURES

Hazard Type	Non Flammable	
Hazards from combustion products	If involved in a fire may evolve cyanides, hydrogen chloride and carbon oxides.	
Suitable Extinguishing media	Water fog, foam, carbon dioxide or dry chemical.	
Precautions for firefighters and special	Full protective clothing and self-contained breathing apparatus.	
protective clothing		
HAZCHEM CODE	3Z	

## Section 6: ACCIDENTIAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area. Caution, floors may be slippery if wet.

#### **Environmental precautions:**

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

#### Methods and material for containment and cleaning up:

Contain liquid spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Wash down affected area with water and detergent. Absorb and collect washings for disposal. Dispose of waste safely in an approved landfill and of according to Section 13.

## Section 7: HANDLING AND STORAGE

Handling:	Keep out of reach of children.
	Read carefully and follow all instructions.
	Do not breath spray, vapours or mist.
	Wash hands thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	Avoid release to the environment.

	Record keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept where more than 3kg of this product is used within 24hrs in a place where the pesticide is likely to enter air or water and leave the place.
Storage:	Keep out of reach of children.
	Store locked up.
	Store away from incompatible materials listed in Section 10.
	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser
	and seed.
	Store in accordance with NZS 8409 Management of Agrichemicals
	This product is subject to signage when stored in quantities of 100L or more, either alone or in
	aggregate with substances of the same hazard classification. More than 100L
	Require secondary containment and signage. For full details refer to NZS 8409 Management of
	Agrichemicals and HSWA Regulations.
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## WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA ppm	mg/m³	STEL ppm	mg/m³
Atrazine	[1912-24-9]	-	1	-	-

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 2023 14<sup>TH</sup> EDITION.

Engineering Controls:	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineeri controls to keep airborne levels below exposure limits. Avoid inhalation of spray mist.			
Personal Protection Eq	uipment:			
Eyes:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles.			
Skin/Hands:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.			
Respiratory:	Not required.			
General:	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.			

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous Liquid
Colour	White to beige
Odour	Odourless
Odour Threshold	Not available
рН	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive	Not available
Limits	
Vapour Pressure	Not available
Density	1.12g/ml @ 25°C
Specific Gravity	Not available
Bulk Density	Not available
Water Solubility	Disperses in water
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
<b>Decomposition Temperature</b>	Not available

Kinematic Viscosity	Not available
Particle Characteristics	Not available
Other information	Suspension Concentrate (SC)

#### Section 10: STABILITY AND REACTIVITY

Stability of Substance	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Possibility of hazardous reactions	Not available.
Conditions to Avoid	None known.
Incompatible Materials	Avoid contact with strong oxidising agents.
Hazardous Decomposition Products	None known. Refer to Section 5.

#### Section 11: TOXICOLOGICAL INFORMATION

#### Acute Effects:

SwallowedHarmful if swallowed. LD50 (rat) 3000mg/kg for atrazineAmounts as single exposure swallowed incidental to normal handling are uinjury.	
Dermal	Not applicable. LD <sub>50</sub> (rat) >3000mg/kg for atrazine
Inhalation	Not applicable. LC <sub>50</sub> (rat) (4hr) >5.8mg/l for atrazine
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 causes damage to organs through repeated or prolonged exposure.

## Section 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

Hazardous to soil organisms

Hazardous to terrestrial vertebrates

#### Product:

Persistence and	Potential for mobility as atrazine is only weakly adsorbed by the soil. Microbial degradation is
degradability/Mobility in Soil	the major cause of loss from the soil.
	Half-life in soil is typically 35-50days. Degradation is slower in cold temperatures and dry
	soils.
Bioaccumulation	No data available.
Other adverse effects	Avoid unintended release into streams and waterways.

**Ecotoxicity:** 

Acute Toxicity (fish) (atrazine) LC<sub>50</sub> (bluegill sunfish) (96hr) 16mg/l LC<sub>50</sub> (rainbow trout) (96hr) 4.5-11mg/l

#### Acute Toxicity (daphnia) (atrazine) EC<sub>50</sub> (48hr) 6.9mg/l

#### Very toxic to aquatic organisms

Acute Toxicity (birds) LD<sub>50</sub> (mallard duck) >2000mg/kg

#### Harmful to terrestrial vertebrates

Acute Toxicity (bees) LD<sub>50</sub> >90ug/bee

#### Non-toxic to bees

Section 13: DISPOSAL INFORMATION

Disposal Method:	Triple rinse container and add rinsate to the spray tank.
	Dispose of product only by using in accordance with label directions, or through Agrecovery
	Chemical Recovery Service or alternative approved programs.
Container Disposal:	Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for free recycling. Otherwise crush and bury in an approved landfill. Do not burn. Do not use container for any other purpose.
Precautions or methods to avoid:	Do not allow product or empty container to contaminate any waterway.
-	

## Section 14: TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



## Road, Rail, Sea and Air Transport

UN No	3082	
Class - Primary	9	
Packing Group		
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Atrazine 50%)	
Marine Pollutant	Yes	
Special ProvisionsIf the product's individual container is below 5L, it can be transported as a as the product packaging is still labelled as per DG requirements and the d safety information in accordance with Chapter 3.4 of the UNRTDG.		

#### Section 15: REGULATORY INFORMATION

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020		
	EPA Approval Code:	HSR000534

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100L
Emergency Response Plan (Schedule 5)	100L
Secondary Containment (Schedule 5)	100L
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
HSNO Additional Controls (Restrictions of use)	
77A -	The substance must not be applied onto or into water.
ACVM Act and Regulations	
See <u>www.foodsafety.govt.nz</u> for registration conditions	P7115

## Section 16: OTHER INFORMATION

#### Glossary

EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	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 2023 14th edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

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Please contact Ravensdown, if further information is required.

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