

ISSUED: 17/09/2009

Section 1: SUSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	RAVENSDOWN ATRATEC
Recommended Use:	Selective herbicide for the control of certain grass and broadleaf weeds in maize, sweetcorn, established lucerne and linseed
Company Identification: Address:	Ravensdown Fertiliser Co-operative Limited Level 1 32 Oxford Terrace Christchurch
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Telephone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone:	111 Tell operator what service is needed: Fire, Ambulance, Police

Section 2: HAZARD IDENTIFICATION

Hazard Classifications:	6.1D, 6.3B, 6.9B, 9.1A, 9.2A, 9.3C
Priority Identifiers:	HARMFUL, ECOTOXIC
Secondary Identifiers:	6.1D = May be harmful if swallowed, inhaled or absorbed through the skin 6.3B = Mildly irritating to the skin 6.9B = May cause organ damage from repeat oral exposure at high doses 9.1A = Very ecotoxic in the aquatic environment 9.2A = Very ecotoxic in the soil environment 9.3C = Harmful to terrestrial vertebrates

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Atrazine	1912-24-9	90%
Non-hazardous ingredients		10%

Section 4: FIRST AID MEASURES

First Aid Measures:	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
Inhalation:	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.

Ingestion:	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.
Skin:	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
Eye:	Flush with plenty of water holding eyelids open if necessary.
Advice to Doctor:	No specific antidote. Treat symptomatically

Section 5: FIRE FIGHTING MEASURES

Flammability:	Non flammable
Hazardous Combustion Products:	If involved in a fire may evolve cyanides, hydrogen chloride and carbon oxides.
Extinguishing Media:	Water fog, foam, carbon dioxide or dry chemical
Protective Equipment:	Full protective clothing and self contained breathing apparatus
HAZCHEM Code:	2Z
Location Certificate:	Not applicable
Hazardous Atmosphere Zone:	Not applicable
Fire Extinguishers:	Not applicable

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Wear appropriate protective clothing. Exclude non-essential people from the area. Sweep up solids without generating dust. Contain liquid spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill.
Protective Clothing:	For appropriate personal protective equipment see section 8.
Environmental Precaution:	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Section 7: HANDLING AND STORAGE

Handling:	Keep out of reach of children. Avoid contact with skin, eyes and inhalation of spray mist. Avoid breathing dust. Approved Handler: This product must be under the control of an approved handler when applied in a wide dispersive manner or used by a commercial contractor Tracking: Not required 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:	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 100kg or more, either alone or in aggregate with substances of the same hazard classification. More than 100kg require secondary containment and signage. For full details refer to NZS 8409 Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).
Other Information:	Always read the label before use. See label for further information on handling and storage.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:	No exposure limits have been assigned for this product by OSHA
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- Protective Equipment:** When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
- 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 spray mist.
- Hygiene Precautions:** 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:** Light brown granule
Odour: Odourless
Density: 0.9
Solubility in Water: Disperses in water
pH: Not applicable
Other Information: (DF) Dry Flowable

Section 10: STABILITY AND REACTIVITY

- Stability:** When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
- Hazardous Polymerisation:** Hazardous polymerisation will not occur
- Materials to Avoid:** Avoid contact with strong oxidising agents

Section 11: TOXICOLOGICAL INFORMATION

- HSNO Class:** 6.1D, 6.3B, 6.9B.
- Inhalation:** **Acute Inhalation LC50 (rat) (4hr) >5.8mg/l** for atrazine
No adverse effects are to be expected. When applying this product avoid inhalation of spray mist.
- Ingestion:** **Acute Toxicity (Oral) LD50 (rat) 3000mg/kg** for atrazine
Amounts as single exposure swallowed incidental to normal handling are unlikely to cause injury.
- Skin:** **Acute Toxicity (Dermal) LD50 (rat) >3000mg/kg** for atrazine
May cause mild skin irritation on prolonged contact
- Eye:** Not an eye irritant
- Chronic Effects:** No information available.
- Reproductive Toxicity:** Data indicates no reproductive effects
- Mutagenicity:** No mutagenic or teratogenic effects expected
- Carcinogenicity:** Based on the results of animal studies not considered to be carcinogenic to humans

Section 12: ECOLOGICAL INFORMATION

- HSNO Class:** 9.1A, 9.2A, 9.3C
- Ecotoxicity:** **Acute Toxicity (fish) (atrazine)**
LC50 (bluegill sunfish) (96hr) 16mg/l
LC50 (rainbow trout) (96hr) 4.5-11mg/l
- Acute Toxicity (daphnia) (atrazine)**
EC50 (48hr) 6.9mg/l
- Very toxic to aquatic organisms**

Acute Toxicity (birds)
LD50 (mallard duck) >2000mg/kg

Harmful to terrestrial vertebrates

Acute Toxicity (bees)
LD50 >90ug/bee

Non-toxic to bees

Persistence/Mobility: Potential for mobility as atrazine is only weakly adsorbed by the soil. Microbial degradation is 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.

Section 13: DISPOSAL INFORMATION

Product Disposal: Dispose of product only by using according to label or at an approved landfill

Container Disposal: Ensure container is completely empty. Burn in an appropriate incinerator if circumstance, such as wind direction permit. Otherwise crush and bury in an approved landfill. Do not use container for any other purpose.

Section 14: TRANSPORT INFORMATION

RAIL/ROAD: **UN Number:** 3077
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Atrazine 90%)
DG Class: 9
Packing Group: III
Marine Pollutant: Yes

SEA (IMDG Code): **UN Number:** 3077
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Atrazine 90%)
DG Class: 9
Packing Group: III
Marine Pollutant: Yes

AIR: (ICAO/IATA) **UN Number:** 3077
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Atrazine 90%)
DG Class: 9
Packing Group: III
Marine Pollutant: Yes

Other Information: Do not carry more than 10kg of Ravensdown Atratec on a passenger service vehicle. Check the latest Land Transport of Dangerous Goods NZS 5433 for additional information on segregation. Sea and air transport may require further segregation.

Section 15: REGULATORY INFORMATION

ACVM: Registered pursuant to the ACVM Act 1997, P7359
See www.nzfsa.govt.nz/acvm/ for registration conditions.

ERMA: Approved pursuant to the HSNO Act 1996, Code: HSR000465
See www.erna.govt.nz for approval controls.

Section 16: OTHER INFORMATION

This SDS supersedes 07/03/2004 and was reviewed to include HSNO requirements.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.