



# SAFETY DATA SHEET

## ACIERTO™ EC Herbicide

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

**Product name :** ACIERTO 900 EC  
**Chemical name of active Ingredient(s):** Acetochlor: 2-chloro-N-ethoxymethyl-6'-ethylaceto-o-toluidide  
**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, 6.3A, 6.4A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C



TOXIC



ECOTOXIC

#### TOXICITY

May be harmful if swallowed, inhaled or absorbed through the skin. May cause eye and skin irritation. May cause sensitisation from prolonged skin contact. – Avoid contact with skin and eyes. Harmful – May cause kidney or liver damage from repeated oral exposure at high doses.

#### ECOTOXICITY

Very toxic aquatic organisms - Avoid contamination of any water supply with product or empty container. Selective Herbicide – Very toxic to some plant species. Certain plants may be damaged or killed from root uptake of this product. Do not allow drift outside the target area.

### Section 3. Composition/information on Ingredients

Substance/preparation	Preparation		
<u>Information on hazardous ingredients *</u>			
Common name	CAS No.	%	EC Number
Acetochlor	34256-82-1	80 - 85 %	251-899-3
Solvent napha light aromatic (Low boiling point)	64742-95-6	2 – 3	265-199-0

*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:** Use Dry chemical, water spray, foam, carbon dioxide.  
**Special Procedures** Exercise caution when fighting any chemical fire. In case of insufficient ventilation wear suitable respiratory equipment.

**Hazardous thermal (de)composition products:** Chloride compounds, carbon dioxide and nitrogen oxides

**Protection of fire-fighters:** Wear suitable protective clothing, gloves and eye/face protection, Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

### Section 6: Accidental Release Measures

**SPILLS AND DISPOSAL:** When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Exclude non-essential people from the area. Contain the spill by damming, recover spilt product by absorbing with sawdust or an inert absorbent material then transfer the recovered spilt material to a properly labelled drum. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

### Section 7: Handling and Storage

**APPROVED HANDLER:** This product must be under the control of an approved handler during use.

**RECORD KEEPING:** Records of use as described in NZS 8409 Management of Agrichemicals must be kept if using 3 litres or more of ACIERTO within 24 hours.

#### **PERSONAL PROTECTION:**

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

Avoid contact with the eyes. When mixing or applying, wear overalls, chemical resistant boots and gloves, eye protection and respirator (organic vapour and particulate matter). Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

**STORAGE:** Keep out of reach of children. Store in original container tightly closed and in a locked dry, cool, well ventilated area, away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100 litres of ACIERTO require secondary containment and signage, and more than 100 litres require emergency response plans.

### 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.

#### 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.

**Occupational Exposure Limits:** Acetochlor : Not Established

### Section 9: Physical and Chemical Properties

**Physical state:** Clear, Liquid  
**Colour:** Violet  
**Odour:** Aromatic  
**Density:** 1.093 ± 0.015 g/mL @ 20°C  
**Vapour pressure:** 6 mPa @ 25°C (Acetochlor)  
**Octanol/water partition coefficient** log P = 4.14 (Acetochlor)  
**pH:** 5-7  
**Flash point [°C]:** >62  
**Flammability:** Combustible  
**Explosion properties:** Not Explosive  
**Oxidation properties:** Not oxidizing



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### Section 10: Stability and Reactivity

<b>Stability:</b>	Stable
<b>Materials to avoid:</b>	Oxidizing agents, acids and alkali.
<b>Hazardous reactions :</b>	No polymerisation
<b>Hazardous decomposition products:</b>	Chloride compounds, carbon dioxide and nitrogen oxides.

### Section 11. Toxicological Information

<b>Acute toxicity - Oral:</b>	LD <sub>50</sub> (rat)= ,2,000 mg/kg
<b>Acute toxicity - Dermal:</b>	LD <sub>50</sub> (rabbit) > 4,000 mg/kg
<b>Acute toxicity – Inhalation:</b>	LC <sub>50</sub> (rat) > 2.7 mg/L (maximum attainable concentration) (4 hours)
<b>Skin irritation:</b>	Slight irritant (rabbit).
<b>Eye irritation:</b>	Mild irritant (rabbit).
<b>Sensitization:</b>	Sensitizer
<b>Carcinogenicity:</b>	EPA : Group B2 EU : Not classified
<b>Mutagenicity:</b>	Not mutagenic
<b>Reproductive toxicity:</b>	Not considered to be toxic for the reproductive system
<b>Teratogenicity:</b>	Not teratogenic in animal experiments

### Section 12: Ecological Information

<b>Common name:</b>	Acetochlor	
<b>Ecotoxicity:</b>	<b>96H-LC<sub>50</sub> - Rainbow trout [mg/l]</b>	0.983
	<b>48 Hour – EC<sub>50</sub> - Daphnia magna [mg/l]:</b>	12.5
	<b>72h – EC<sub>50</sub> - Algae [mg/l]:</b>	0.00261
	LD50 Birds [mg/kg]:	646 Bobwhite quail
	Birds LC50 [ppm]	>2000 Mallard duck
	Bees LC50 [µ/Bee]	Not Toxic to bees
	Persistence and degradability:	
<b>Mobility:</b>	Soil –Moderately mobile	
<b>Persistence/degradability:</b>	<b>Soil:</b> Moderately persistent in soil Half-life time (t1/2): 8-18 days Readily absorbed in soil	
	<b>Water</b> Half-life time (t1/2): 20 days (20°C)	
<b>Bioaccumulative potential:</b>	BCF: 100-3000	

### Section 13: Disposal Considerations

<b>Methods of disposal:</b>	Dispose of this product only by using according to the label or at an approved landfill.
<b>Container Disposal:</b>	Triple rinse container and add rinsate to spray tank. Empty containers and product should not be burnt. Dispose of container in a suitable landfill or take to an Agrecovery collection site. Do not use container for any other purpose.

### Section 14: Transport Information

<b>UN Number</b>	3082
<b>Proper shipping name</b>	Environmentally hazardous substance, Liquid, N.O.S, (Acetochlor)
<b>DG Class</b>	9
<b>Packing Group</b>	III
<b>Hazchem Code</b>	2X
<b>Marine Pollutant</b>	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. P8861  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

Approved pursuant to the HSNO Act 1996, Approval No. HSR000404  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls

**HAZARD CLASSIFICATIONS:** 6.1D, 6.3A, 6.4A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C



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**APPROVED HANDLER:** This product must be under the control of an approved handler during use

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### 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

**Date of printing:** 15/07/2014