

**MATERIAL SAFETY DATA SHEET****STATEMENT OF HAZARDOUS NATURE:**

Hazardous according to the criteria of Worksafe Australia

**COMPANY DETAILS:**Novartis Animal Health Australasia Pty Ltd.  
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140-150 Bungaree Rd.,  
PENDLE HILL, NSW, 2145Telephone No.: (02) 9688 0444  
24 Hours Emergency No.: 1 800 033 111**IDENTIFICATION****PRODUCT NAME: ACATAK® Pour-On Tick Development Inhibitor**

<b>Formulation type:</b>	Solution	<b>Dangerous Goods Class/ and Subsidiary Risk:</b>	none allocated
<b>Active ingredient:</b>	Fluazuron	<b>Hazchem Code:</b>	none allocated
<b>CIBA-GEIGY Code No.:</b>	CGA 157419	<b>Packaging Group:</b>	none allocated
<b>Chemical type:</b>	substituted urea	<b>Poisons Schedule:</b>	6
<b>U.N. Number:</b>	none allocated	<b>WHO Hazard Class:</b>	III

**USE:** For strategic control of cattle tick, *Boophilus microplus*, (including all known resistant strains) on Beef Cattle.**PHYSICAL DESCRIPTION/PROPERTIES -**

<b>Appearance:</b>	Clear slightly yellow	<b>Flash Point:</b>	92°C (closed cup)
<b>Odour:</b>	Slightly like ammonia	<b>Flammability:</b>	Non-flammable
<b>Specific gravity (H<sub>2</sub>O=1):</b>	1.04 (at 20°C)	<b>Combustibility:</b>	Class 3.3 -combustible
<b>Behaviour in water:</b>	Not miscible with water	<b>Volatility:</b>	Not available
<b>Viscosity 25°C:</b>	15 - 30 mPas	<b>Corrosiveness:</b>	Non-corrosive

**INGREDIENTS**

<b>INGREDIENTS</b>	<b>CAS No.</b>	<b>Content (%w/v)</b>
<b>fluazuron (technical grade)</b>		>2.5
to give fluazuron	[86811-58-2]	2.5
1-dodecyl-2-pyrrolidinone	[2687-96-9]	10-<30
[also known as N-(n-dodecyl) pyrrolidone]		
1-octyl-2-pyrrolidinone	[2687-94-7]	10-<30
[also known as N-(n-octyl) pyrrolidone]		
1-methyl-2-pyrrolidinone	[872-50-4]	30-<60
other ingredients determined not to be hazardous		to 100

**HEALTH HAZARD INFORMATION****HEALTH EFFECTS****ACUTE:****Toxicity -**

Swallowed:

**LOW TOXICITY**Tests on rats indicate a low toxicity following single doses of undiluted product.  
(LD<sub>50</sub> >2000 mg/kg)

Dermal absorption:

**LOW TOXICITY**Tests on rats indicate low toxicity due to contact with undiluted product.  
(LD<sub>50</sub> >4000 mg/kg)

Inhaled:

Not determined.

**Irritation -**

Eye:

**HIGHLY IRRITATING** (based on studies with the pyrrolidinone components)

Skin:

**HIGHLY IRRITATING** (based on studies with ACATAK and the pyrrolidinone components)

Respiratory System:

**IRRITATING** (based on studies with the pyrrolidinone components)

**Sensitisation -**

Skin: Neither **fluazuron technical** nor 1-octyl-2-pyrrolidinone induced sensitisation on guinea pig and human skin, respectively, but 1-dodecyl-2-pyrrolidinone showed delayed contact hypersensitivity in guinea pigs.

**Poisoning symptoms:**

Ingestion is likely to cause smarting and burning sensations, inflammation, burns and painful blisters of the mouth, throat and digestive tract. Exposure by inhalation is unlikely but the effects likely would be irritation of mucous membranes, nose, eyes and throat, coughing and difficulty in breathing. Based on tests with the components, the product is likely to cause a smarting and burning sensation on skin or eye contact. These symptoms could extend to inflammation, burns and/or painful burns on the skin. Eye contact could result in painful stinging of the eyes and lids, watering of the eyes, conjunctivitis, opaqueness of cornea and possibly to loss of sight.

**CHRONIC**

Fluazuron technical has been tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects was obtained. 1-dodecyl-2-pyrrolidinone and 1-octyl-2-pyrrolidinone proved non-mutagenic in an Ames test. No other mutagenic, carcinogenic, teratogenic or reproductive test results have been found.

**FIRST AID**

In the case of poisoning by any exposure route contact a doctor or Poisons Information Centre (Ph: 131126).

- Swallowed: DO NOT induce vomiting, give plenty of water to drink.  
Inhalation: Move victim into fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen.  
Skin contact: Immediately wash skin with soap and with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Wash clothing before re-use.  
Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes and see a doctor.

**ADVICE TO DOCTOR**

No specific antidote exists. Treat symptomatically.

**PRECAUTIONS FOR USE****ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS****EXPOSURE STANDARDS**

No exposure standards have been established for the components of this product.

**Exposure Potential** - Swallowing is unlikely under normal conditions of usage. Exposure by inhalation is unlikely. Skin uptake is the main route of exposure.

**Handling of Treated Animals** - Wear protective clothing (except face shield) recommended under Personal Protection if handling treated animals within 24 hours of application.

**ENGINEERING CONTROLS**

No special requirements. Product is used outdoors.

**PERSONAL PROTECTION**

Harmful if swallowed. Will damage eyes and skin, avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. When opening the container and using the product wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length butyl rubber gloves and a face shield. If clothing becomes contaminated with product remove clothing immediately. If product gets on skin, immediately wash area with soap and water. If in eyes, wash it out immediately with water.

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.

**FLAMMABILITY**

This product is NON-FLAMMABLE. Product is combustible.

## SAFE HANDLING INFORMATION

### STORAGE AND TRANSPORT

Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

### SPILLS AND DISPOSAL

In case of spillage it is important to take all steps necessary to:

- avoid eye and skin contact
- avoid contamination of waterways.

#### Procedure for spill:

- (1) Keep all bystanders away.
- (2) Wear full length clothing and PVC gloves.
- (3) Reposition any leaking containers so as to minimise further leakage.
- (4) Dam and absorb spill with an absorbent material (eg. sand or soil).
- (5) Shovel the absorbed spill into drums and top with hydrated lime.
- (6) Disposal of the absorbed material will depend upon the extent of the spill
  - For quantities up to 50L of product bury in a secure landfill site.
  - For quantities greater than 50L seek advice (use emergency contact number below) from the manufacturer before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate spill area with hydrated lime scattered over the spill prior to rinsing off with water.

#### Dispose of empty, used containers by:

- (a) Triple rinsing with warm water and detergent. Dispose of rinsate in a disposal pit away from desirable plants and their roots, and watercourses.
- (b) Crushing or perforating the container to prevent re-use.
- (c) Disposing of in a local authority landfill site that does not burn its refuse. If there is no local authority landfill readily available in your area, bury the containers under at least 50 cm of soil at a licensed/approved disposal site. **DO NOT** burn empty containers or product.

### FIRE/EXPLOSION HAZARD

In the event of fire, water or foam extinguishers can be used. Do not attempt to extinguish larger fires - evacuate the area and contact emergency services. During a fire this product may produce smoke and hazardous decomposition products. When fighting a major fire wear an AS 1715 approved air-supplied respirator.

### OTHER INFORMATION

ACATAK is very toxic to aquatic invertebrates.

**Note:** This product is a registered veterinary chemical and must 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 Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

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**CONTACT POINT:** Regulatory Affairs Manager - Animal Health - (02) 9688 0444  
**24 HOURS EMERGENCY CONTACT: 1 800 033 111**

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This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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