

ACTELLIC® 900 SOLVENT FREE LIQUID INSECTICIDE Date of Issue: June 2012

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Actellic® 900 Solvent Free Liquid Insecticide

Other Names: Pirimiphos-methyl

Recommended Insecticide

Use:

Supplier: AgNova Technologies Pty Ltd

ACN: 097 705 158

Address: Suite 3/935 Station Street

Box Hill North Vic 3129 Australia

Telephone: (03) 9899 8100 **Facsimile:** (03) 9899 8500

Website: www.agnova.com.au
Contact: Managing Director

Emergency Telephone

Number: 1800 033 111 (24 hours)

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE – DANGEROUS GOODS

Hazard Classified as hazardous according to the criteria of NOHSC.

Classification: Classified as harmful according to NOHSC.

Risk Phrases: R22 Harmful if swallowed

Safety Phrases: None

ADG Classified as a Dangerous Good according to Australian Code for Classification the Transport of Dangerous Goods by Road and Rail (see section

14)

SUSMP Poisons Schedule 6 (S6)

Classification (Standard for the Uniform Scheduling of Medicines and Poisons)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration % :	
Pirimiphos-methyl	29232-93-7	> 90	
n-Butylalcohol	71-36-3	1-9	
Methylisobutylketone	108-10-1	1-9	
Emulsifiers	-	10-29	

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4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

Ingestion: If swallowed, rinse mouth with water and give water to drink.

Immediately contact a doctor or Poisons Information Centre (Telephone: 13 11 26) and follow advice given. Only induce

vomiting at the instruction of a physician.

Inhalation: Remove to fresh air. Apply artificial respiration if necessary,

and get medical attention.

Skin Contact: If skin contact occurs, remove contaminated clothing and wash

with soap and water. If irritation occurs seek medical advice.

Eye Contact: Immediately flush eyes with copious quantities of water for 15

minutes. Seek medical advice.

First Aid Facilities: Provide washing facilities in the workplace.

Symptoms: May cause eye irritation.

Medical Attention: Treat symptomatically.

Aggravated Medical

Conditions Caused

by Exposure:

None known.

5. FIRE FIGHTING MEASURES

Extinguishing

Media:

Water fog, fine water spray, foam or dry agent.

Hazards from Combustion Products:

Will emit toxic fumes including oxides of carbon, nitrogen and sulphur. Heating can cause expansion or decomposition leading to violent

rupture of containers.

Special Protective Precautions and Equipment for Fire Wear self-contained breathing apparatus and structural fire

fighters uniform.

Fighters:

Hazchem Code: 3[Y]



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6. ACCIDENTAL RELEASE MEASURES

Emergency

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

Procedures:

Procedures:

Avoid eye and skin contact.

• Avoid contamination of waterways.

Methods and Materials for Containment and Clean Up Wear full length protective clothing, boots and breathing apparatus.

Prevent spill from entering drains, sewers or any body of water.

Contain and absorb with sand, earth or inert absorbent.

Scoop or shovel into sealable containers for disposal in accordance with applicable local, state and federal regulations.

Decontaminate area with soap and minimal water.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid contact with eyes and skin. Avoid breathing vapour/mist. Use with adequate ventilation. If inhalation risk exists, wear organic vapour respirator meeting the requirements of AS/NZ 1715 and AS/NZ 1716.

Conditions for Safe Storage including any

Incompatibilities:

Store in tightly sealed original containers in a cool, dry well-ventilated area out of direct sunlight. Store in a locked room away from children, authorized persons, animals, food, feedstuffs, seed and fertilisers. Do not use containers for any

other purpose.

Avoid storing in cold conditions as crystallisation may occur at low temperatures (below 5°C) resulting in separation of the

active ingredient.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:

No occupational exposure standards have been established for the product. The supplier recommended hygiene standard for some of the ingredients:

	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Methylisobutyl- ketone	50	205	75	307	
n-Butylalcohol	50	152	Peak	limit	Sk
Pirimiphos-methyl	-	3	-	-	Sk

TWA = the time weighted average airborne concentrations over a eight-hour working day, for a five-day working week over an entire working life. STEL = Short Term Exposure Limit — the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal 8 hour work day. Peak Limit — a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes. "Sk Notice" — absorption through the skin may be a significant source of exposure. The exposure standard is invalid if such contact should

Biological Limit Values: No biological limit allocated.

Engineering Controls:

Ensure adequate ventilation. Ensure air concentrations are controlled

below quoted hygiene standards.

Personal Protective

Eyes: Safety glasses.

Gloves:

s: Elbow length impervious gloves.

Equipment

Respiratory: If inhalation risk, use an organic vapour respirator

(PPE):

meeting the requirements of AS/NZS 1715 and AS/NZS

1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear amber liquid
Odour: Solvent like odour
pH: No data available
Vapour Pressure: No data available
Vapour Density: No data available
Boiling Point: No data available
Melting Point: No data available

Solubility: Slightly soluble in water



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1.137 g/cm³ **Specific Gravity:** Not applicable **Bulk Density:**

55°C **Flash Point:**

Flammability No data available

(explosive) Limits:

Auto-Ignition No data available

Temperature:

Octanol/Water No data available

Partition Coefficient:

Particle Size: Not applicable

Formulation: Liquid

10.STABILITY AND REACTIVITY

Chemical Stable under normal storage conditions.

Stability:

Conditions to Avoid storing in cold conditions as crystallisation may occur at low Avoid:

temperatures (below 5°C) resulting in separation of the active

ingredient.

Incompatible

Materials:

None known.

Hazardous Decomposition

Products:

During a fire this product will emit toxic fumes including oxides of

carbon, nitrogen and sulphur.

Hazardous Reactions:

None

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11. TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:

This product is harmful according to NOHSC.

Ingestion: No adverse health effects are expected from swallowing.

Inhalation: Not harmful.

Test on rats indicate this product is not harmful due to the inhalation

of the active ingredient.

Skin Contact: Not harmful.

Test on rats indicate this product is not harmful following skin

contact with the active ingredient.

Eye Contact: May cause eye irritation.

Other: The active, pirimiphos-methyl is an organophosphorous insecticide

> which inhibits cholinesterase activity, producing both local and systemic effects by interference with nerve transmission. Onset of symptoms may be delayed for several hours. Studies in animals show that repeated exposure produce no significant effects except

for cholinesterase inhibition. No other known health effects.

Animal Toxicity Data:

No data is available for the product so results are based on the active ingredient.

Acute:

Oral Toxicity: LD₅₀ Oral (ingestion) Rat > 2050 mg/kg

Dermal Toxicity: LD₅₀ Dermal (skin contact) Rat > 2000 mg/kg

Inhalation

 LC_{50} (4 hr) Rat > 5.04 mg/L

Toxicity:

Skin Irritation: Slight irritant (rabbit)

Slight irritant (rabbit) Eye Irritation:

Sensitisation: Not a sensitiser

Chronic: The active, pirimiphos-methyl technical has been extensively tested

> in mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, neurotoxic, tetragenic or reproductive effects was obtained. Cholinesterase levels will return to normal a few weeks

after exposure



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12. ECOLOGICAL INFORMATION

ACTIVE INGREDIENT: Pirimiphos-methyl

Ecotoxicity: The active ingredient, pirimiphos-methyl is very toxic to aquatic

organisms. Pirimiphos-methyl is toxic to birds and bees.

Results below are for the active ingredient.

Fish Toxicity: Acute LC₅₀ (Rainbow Trout *Oncorhynchus mykiss*) = 0.64 mg/L (96

nours)

Acute LC_{50} (Mirror Carp) = 1.4 mg/L (48 hours)

Daphnia Toxicity: EC₅₀: 1.4 mg/L (48 hours)

Bird Toxicity: Chicken: Oral $LD_{50} = 30 - 60 \text{ mg/kg}$

Bobwhite Quail: Oral $LD_{50} = 140 \text{ mg/kg}$

Bee Toxicity: Pirimiphos-methyl is toxic to bees.

Other: None known.

Persistence and

Degradability:

There is evidence of hydrolysis in soil and water.

Mobility: Low soil mobility.

Environmental Liquid with low volatility. Active is sparingly soluble in water and has

Fate: low mobility in soil.

Bioaccumulative

Potential:

No data available.

Other Adverse

Environmental

Effects:

None known.

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13. DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of empty, used containers by triple rinsing or

preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted

chemicals on site.

If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

Waste must not enter waterways.

Contaminated Packaging: Dispose in accordance with

applicable local, state and federal regulations.

Special Precautions for Landfill or Incineration:

Empty containers and product should not be burnt.

14.TRANSPORT INFORMATION

UN Number: 1224

Proper Shipping KETONES, LIQUID, N.O.S. (Contains PIRIMIPHOS-METHYL,

Name: METHYL ISOBUTYL KETONE AND BUTANOL))

Class and Subsidiary Class 3

Risk:

Packing Group: III

EPG: HB76 Guide 17

Hazchem Code: 3[Y]

15. REGULATORY INFORMATION

SUSMP: Schedule 6

APVMA: Registered according to the Agricultural and Veterinary

Chemicals Act 1994.

APVMA Product Number: 59710

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16.OTHER INFORMATION

Date of Preparation

or Revision:

June 2012.

Data Sources: Manufacturer product safety data and published data

Abbreviations and Acronyms:

APVMA – Australian Pesticides and Veterinary Medicines

Authority

NOHSC - National Occupational Health and Safety

Commission

SUSMP – Standard for the Uniform Scheduling of Medicines

and Poisons

TWA – Time Weighed Average = The time weighted average airborne concentrations over an eight -hour working day, for a

five-day working week over an entire working life.

Trademark Information:

® Actellic is a Registered Trademark of a Syngenta Group

Company.

This MSDS 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.

The opinions expressed herein are those of qualified experts with the manufacturer. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of AgNova Technologies Pty Ltd, it is the user's obligation to determine the conditions of safe use of the product.

END OF MSDS