

MATERIAL SAFETY DATA SHEET

Sumilarv® Insect Growth Regulator

Date of Issue: October 15, 2002

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Sumilarv® Insect Growth Regulator
Other names: None
Product code: AE F160730 00 EW02 A1
Recommended use: An aqueous concentrate insect growth regulator insecticide
Supplier: Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd ABN 87 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn
Victoria 3123, Australia
Telephone: (03) 9248 6888
Facsimile: (03) 9248 6800
Website: www.bayercropscience.com.au
Contact: Technical Manager (03) 9248 6854
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Will irritate eyes and skin. Not flammable.

Hazard designation: Not classified as hazardous according to criteria of Worksafe Australia
Risk phrases: Not applicable
Safety phrases: Not applicable
ADG classification: Not “dangerous goods” for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
SUSDP classification: Exempt

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/L):
Pyriproxyfen	[95737-68-1]	20
Other ingredients	(non-hazardous)	580
Water	[7732-18-5]	430 approx

4. FIRST AID MEASURES

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

Inhalation: Remove person to fresh air. Keep at rest. Seek medical advice if exposure has been more than trivial.
Skin contact: Wash off skin immediately with soap and plenty of water. Seek medical advice if irritation persists. Launder contaminated clothing before re-use.

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Eye contact: Immediately rinse eyes thoroughly, including under eyelids, with running water for at least 15 minutes. Seek medical advice.

Ingestion: Seek medical advice.

First Aid Facilities: Provide washing facilities in the workplace.

Symptoms: No specific symptoms are associated with this product. Pyriproxyfen is an insect juvenile hormone analogue and therefore mammalian toxicity is low.

Medical attention: No specific advice given. The main hazards of this product are irritation of the eye and skin.

5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or water spray. Do not use water jet from fire hose.
Hazards from combustion products:

Precautions for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus. Do not release contaminated water into the environment.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective clothing and boots. Prevent spill from entering drains, sewers or any body of water. Absorb spill with sand, earth or other inert absorbent. Scoop or shovel into sealable containers for disposal in accordance with applicable local, state and federal regulations.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with the eyes and skin.
Storage: Store product in the closed, original container in a cool, well-ventilated area away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia).

Engineering controls: Control process conditions to avoid contact. Use local exhaust ventilation.

Personal Protective Equipment: Eyes: Avoid contact with the eyes. Wear chemical goggles when handling product.

Clothing: Avoid contact with skin. Wear suitable protective clothing. Protective clothing must be stored separately from private clothing.

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Gloves: Avoid contact with the skin. When preparing spray wear elbow-length PVC gloves.
Respiratory: Do not inhale spray mist.
Other: Wash thoroughly after handling. Do not eat, drink or smoke until after washing. After each day's use wash gloves, goggles and contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow liquid
Odour: Pine odour
Vapour pressure: As water
Vapour density: Not available
Boiling point: Not available
Solubility: Forms an emulsion
Specific Gravity: 1.034
Density: Not available
pH: 3.0 to 5.0
Flash Point: Not applicable
Flammability (explosive) limits: Not applicable
Auto-ignition temperature: Not available
Percentage Volatiles: <10%
Octanol/water partition coefficient: Not available
Formulation: Aqueous concentrate insect growth regulator insecticide

10. STABILITY AND REACTIVITY

Chemical stability: Non-flammable
Hazardous polymerisation: Not available
Conditions to avoid: Not available
Incompatible materials: Avoid oxidising agents.
Hazardous decomposition products: Not available

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

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Inhalation: Inhalation of spray mist may cause irritation of the mucosa.

Skin contact: Irritating. May cause defatting of the skin.

Eye contact: Will irritate the eyes.

Ingestion: Irritating to gastrointestinal tract

Other: None

ANIMAL TOXICITY DATA – PRODUCT: No data available for the product.

ANIMAL TOXICITY DATA – ACTIVE INGREDIENTS:

Acute:

Oral toxicity: LD₅₀ rat: > 5000 mg/kg (pyriproxyfen)

Dermal toxicity: LD₅₀ rat: > 2000 mg/kg (pyriproxyfen)

Inhalation toxicity: LC₅₀ (4 h) rat: > 1300 (pyriproxyfen)

Skin irritation: Not irritating – rabbit (pyriproxyfen)

Eye irritation: Minimal irritation – rabbit (pyriproxyfen)

Sensitisation: Not sensitising - guinea pig (pyriproxyfen)

Chronic:

The toxicity profile of pyriproxyfen indicates that the long-term use of this product should not result in adverse health effects.

12. ECOLOGICAL INFORMATION

DO NOT feed treated seed or otherwise expose to wildlife or domestic birds. DO NOT contaminate streams, rivers, or waterways with the chemical, used containers, treated seed or bags which have held treated seed.

Fish toxicity: Pyriproxyfen is toxic to fish and other aquatic organisms.

Daphnia toxicity: Not available

Toxicity to algae: Not available

Bird toxicity: Not available

Bee toxicity: Not available

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Other: None

**Environmental
fate, persistence
and degradation:** Not available

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13. DISPOSAL CONSIDERATIONS

Follow Avcare guidelines. Rinse containers before disposal and add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. Dispose of the 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. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN number: Not applicable
Proper shipping name: Not applicable
Class and Subsidiary Risk: Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Packing Group: Not applicable
EPG: Not applicable
Hazchem code: Not applicable

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

National Registration Authority Approval Number: 45923

16. OTHER INFORMATION

Trademark information: Sumilarv® is a Registered Trademark of Sumitomo Chemical Co. Ltd.

Preparation information: Replaces June 14, 2001 edition.
Reason for update: Conversion to 16 heading format.

Data sources: Bayer CropScience Pty Ltd product safety data and published data

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.

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

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS