

SAFETY DATA SHEET: Sumilarv®

1. IDENTIFICATION

Product Name: Sumilarv® Insect Growth Regulator.
Other Names: None
Recommended Use: An aqueous concentrate insect growth regulator insecticide.
Distributor: Key Industries Ltd
Address: PO Box 65070 Mairangi Bay Auckland 0754
Telephone: 09 917 1791
Emergency Phone: 027 4941659
Supplier: Sumitomo Chemical Australia Pty Ltd.
Telephone Number: +61 (2) 8752 9000 (Mon–Fri 8am–5pm EST)
Facsimile: +61 (2) 8752 9099
National Poisons Centre: 0800 764 766

2. HAZARDS IDENTIFICATION

Hazard Classification: 3.1D, 6.3B, 6.4A, 6.9B, 9.1B
Hazards: Low toxicity if inhaled
 Low oral toxicity if swallowed
 May cause mild eye irritation
 May cause mild skin irritation
 Causes damage to organs through prolonged or repeated exposure.
 Very toxic to fish and freshwater invertebrates.
 Inhibits the growth of bacteria

Not classified as a dangerous good for transport by road/ rail

3. COMPOSITION: INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportion (%w/w)
Pyriproxyfen	95737-68-1	2%
Propylene Glycol	57-55-6	30%
Other ingredients determined as non hazardous	-	72.7%

4. FIRST AID MEASURES

For advice contact the National Poisons Centre – 0800 POISON (0800 764 766) or a doctor, immediately. Show this Material Safety Data Sheet to a doctor.

General In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation If inhaled remove from contaminated area to fresh air. If any signs or symptoms occur or persist, seek medical advice.

Skin If on skin remove contaminated clothing and wash skin thoroughly with soap and water. Launder contaminated clothing before re-use. Seek medical advice if irritation develops.

Eye If in eyes hold eyes open and flood with water for at least 15 minutes and seek medical advice.

Ingestion If swallowed, do not induce vomiting. Wash mouth with water. Seek medical advice.

First Aid Facilities Provide washing facilities in the workplace.

Symptoms No specific symptoms are associated with this product. No human poisoning cases have been observed. Pyriproxyfen is an insect juvenile hormone analogue and therefore mammalian toxicity is low.

Note to physician Apply basic aid and decontamination procedures. Treatment should be symptomatic and supportive.

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5. FIRE FIGHTING MEASURES

Flashpoint:	N/A
Flammable limits:	N/A
Auto-ignition temperature:	N/A
Extinguishing Media	Dry chemical powder, carbon dioxide. Large fires: waterspray or foam.
Unsuitable Extinguishing Media	Water with full waterjet.
Special Exposure Hazard	None known.
Hazardous Decomposition / Combustion Products	May emit toxic and irritating fumes under fire conditions. Normal combustion forms carbon dioxide, water vapour and may produce oxides of nitrogen. Incomplete combustion can produce carbon monoxide.
Protective Equipment	Ensure respiratory equipment is available. Evacuate immediate area. Wear full protective equipment, including breathing apparatus. See also Section 8.
Fire Fighting	If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water. Dispose of extinguishing agent and spillage safely later. Contamination of water bodies should be avoided.
HAZCHEM CODE	NA

6. ACCIDENTAL RELEASE MEASURES

Emergency Telephone Number	0800 343 622 (24 hours) (EMERGENCIES ONLY)
Spills	Stop the source of the spill if it is safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. Wear personal protective equipment as specified in Section 8. Do not allow material to enter sewers or bodies of water.
Small Spills (Liquid spill)	Apply absorbent inert material such as soil, dry sand or vermiculite to the spill area. Sweep up material when absorption is complete and contain in a refuse vessel for disposal. If necessary, wash the spill area with an alkali detergent and water and absorb and contain as above.
Large Spills (Liquid Spill)	Place leaking containers into salvage drums. Apply absorbent inert material such as soil, dry sand or vermiculite to the spill area. Form a barricade around spill and in front of drains or waterways in spill vicinity, using soil or other non reactive material. Sweep up material and contain in a refuse vessel for disposal.
Spills in water	This material forms an emulsion in water. Stop or reduce contamination of any water. Isolate contaminated water. Remove contaminated water for treatment or disposal.
Disposal	Contaminated material must be disposed of in accordance with all State and/or Local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling	DO NOT USE OR STORE near flame, sparks or hot surfaces. Use only in well ventilated area. Keep container closed. Keep out of reach of children, unauthorised persons and animals. After handling and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. For personal protection see Section 8.
Storage Requirements	Store in the closed, original container in a dry, cool, well ventilated area, out of direct sunlight. Do not store near food, feedstuffs, fertiliser or seed. Store at ambient temperatures

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards	No exposure limits (WES, TEL or EEL) have been specifically assigned for this product.
Engineering Controls	Provide adequate ventilation.
Exposure Limits	No exposure limits have been established for this material.
Personal Protection	
Respiratory	This material may be a respiratory irritant and, unless ventilation is adequate, the use of approved respiratory protection is recommended.
Hand	Wear protective gloves.
Eye	Avoid contact with eyes. Eye contact can be avoided by wearing protective eyewear.
Skin and Body	Avoid contact with skin or clothing. Skin contact should be minimised by wearing protective clothing including gloves, long sleeved shirt, long pants and chemical resistant boots.
Other Information	Wash clothes before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear pale yellow liquid
Odour:	Negligible
pH:	8.2 (undiluted)
Vapour Pressure:	As water
Vapour Density:	NA
Boiling Point:	NA
Solubility:	Forms an emulsion
Specific Gravity:	1.047 g/mL at 20°C
Flashpoint:	NDA
Explosive Limits:	NDA
Ignition Temperature:	NDA

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions. (See Section 7).
Conditions to avoid	Avoid direct sunlight.
Materials to avoid	NDA
Hazardous Decomposition Products	Emits toxic fumes under fire conditions (See also Section 5).

11. TOXICOLOGICAL INFORMATION

ACUTE HEALTH EFFECTS (Active Ingredient - pyriproxyfen)

Toxicology	
Swallowed:	LD50 rat: > 5000 mg/kg
Skin:	LD50 rat: > 2000 mg/kg
Inhalation:	LC50 (4 hr) rat: > 1300 mg/kg
Irritation	
Skin:	NON-IRRITANT (rabbit)
Eye:	NON-IRRITANT (rabbit)
Sensitisation	
Skin:	NOT A SKIN SENSITISER (guinea pig)

CHRONIC HEALTH EFFECTS (Active Ingredient - pyriproxyfen)

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

OTHER TOXICOLOGICAL INFORMATION (Active Ingredient - pyriproxyfen)

Teratology (Birth Defects) Information

No developmental toxicity was produced in animals exposed to pyriproxyfen technical, even at doses that were toxic to the pregnant animal. This product is not expected to be a reproductive hazard when used according to label directions.

Reproduction Information

Pyriproxyfen technical did not produce reproductive toxicity in animal studies. This product is not expected to be a reproductive hazard when used according to label directions

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12. ECOLOGICAL INFORMATION

Do not contaminate streams, rivers or waterways with the chemical or used containers.

Ecotoxicity (Active Ingredient – pyriproxyfen)

Fish:	LC50 Rainbow trout (96 hour) > 0.325 µg/L
Daphnia:	EC50 <i>Daphnia magna</i> (48 hour) = 0.40 mg/L
Algae:	EC50 algae (72 hour) = 0.064 mg/L
Birds:	LD50 Mallard ducks and Bobwhite quail > 2000 mg/kg
Bees:	LD50 Honey bees (acute contact 48 - and 96-hour) > 100

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of product only by using according to label or using an approved waste disposal contractor. If this material as supplied becomes a waste care should be taken to ensure compliance with national and local authorities. It is the responsibility of the waste generator to determine the toxicity and physical properties of the waste generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Do not dispose of via municipal sewers, drains, natural streams or rivers.

Packaging Disposal

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Incinerate via approved incinerators or crush and bury in an approved landfill. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

14. TRANSPORT INFORMATION

Classified as not dangerous in the meaning of the Australian road and rail transport regulations.

Proper Shipping Name:	NA
Class:	NA
Sub Risk Class:	NA
UN Number:	NA
Hazchem Code:	NA
Packing Group:	NA

15. REGULATORY INFORMATION

EPA Approval Number: HSR000705

This substance does not require approval/registration according to the Agricultural Compounds and Veterinary Medicines Act (ACVM).

16. OTHER INFORMATION

Reasons for Issue:

Update format and content to comply with legislation.

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the suppliers knowledge. 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. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Key Industries Limited