

Sumilarv[®] Insect Growth Regulator**SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product Name: Sumilarv[®] Insect Growth Regulator
Other Names: None
Recommended Use: An aqueous concentrate insect growth regulator insecticide.
Company: Sumitomo Chemical Australia Pty Ltd
A.B.N. 21 081 096 255
Address: 242 Beecroft Road, Epping NSW 2121
Telephone Number: (02) 8752 9000 (Mon–Fri 8am–5pm EST)
Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)
Website: www.sumitomo-chem.com.au

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification: Not hazardous according to the criteria of the Australian Safety and Compensation Council (ASCC).
Risk Phrases: Not applicable.
SUSDP Classification (Poison Scheduling): Exempt
ADG Classification: Not classified as a Dangerous Good for transport via road and rail.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

SECTION 4: FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone Australia Tel. 131126; New Zealand 0800 764 766), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

General: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
Swallowed: If swallowed, do not induce vomiting, seek medical advice.
Skin contact: 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 contact: If in eyes, hold eyes open and flood with water for at least 15 minutes and seek medical advice.
Inhalation: If affected, remove from contaminated area to fresh air. If any signs or symptoms occur or persist, 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.

SECTION 5: FIRE FIGHTING MEASURES

Flashpoint: NDA
Flammable limits: NDA
Auto-ignition temperature: NDA

Suitable Extinguishing Media: Foam, dry chemical or water spray. Do not use water jet from fire hose.
Hazards from Combustion Products: In the event of fire, the formulation of gaseous oxides of carbon and nitrogen should be anticipated.
Precautions for Fire Fighting and Special Protective Equipment: Fire fighters should wear full protective gear, including self-contained breathing apparatus. 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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP PROCEDURES

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. **Contact emergency services as required.**

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.

SECTION 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. Will irritate the eyes. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray wear elbow length PVC gloves. Wash hands after use. After each day's use wash gloves. For personal protection, see Section 8.

Conditions for Safe Storage: Keep out of reach of children. Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Triple or

preferably rinse containers before disposal. Add rinsings to 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. Empty containers and product should not be burnt.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS

Exposure standards represent the air borne concentrations of individual chemical substances, which according to current knowledge, should neither impair the health of, nor cause undue discomfort to, nearly all workers. There is no exposure standard allocated to this product.

BIOLOGICAL LIMIT VALUES

No Biological Limit Allocated.

ENGINEERING CONTROLS

Control process conditions to avoid contact. Use local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Avoid contact with 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.
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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Product Specific)

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

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Non-flammable. Stable under recommended storage and handling conditions (See Section 7).
Conditions to Avoid: Extreme heat.
Incompatible Materials: Avoid oxidising agents.
Hazardous Decomposition Products: In the event of a fire, oxides of carbon and nitrogen may be released.
Hazardous Reactions: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation:	Inhalation of spray mist may cause irritation of the mucosa.
Skin Contact:	May cause irritation of the skin.
Eye Contact:	Will irritate the eyes.
Ingestion:	Irritating to gastrointestinal tract.
Others:	None.

ACUTE HEALTH EFFECTS (Active Ingredient - pyriproxyfen)

Toxicology

Swallowed:	NOT HARMFUL. (LD ₅₀ rat: > 5000 mg/kg)
Skin:	LOW TOXICITY. (LD ₅₀ rat: > 2000 mg/kg) Contact with skin is not expected to be harmful.
Inhalation:	LOW TOXICITY. (LC ₅₀ (4 hr) rat: > 1300 mg/kg) Inhalation of vapour is not expected to be harmful.

Irritation

Skin:	NON-IRRITANT (rabbit)
Eye:	NON-IRRITANT (rabbit)

Sensitisation

Skin:	NOT A SKIN SENSITISER (Guinea pig)
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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.

SECTION 12: ECOLOGICAL INFORMATION

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

ECOTOXICITY (Active Ingredient- pyriproxyfen)

Fish:	LC ₅₀ Rainbow trout (96 hour) > 0.325 µg/L
Aquatic invertebrates:	EC ₅₀ <i>Daphnia magna</i> (48 hour) = 0.40 mg/L
Birds:	LD ₅₀ Mallard ducks and Bobwhite quail > 2000 mg/kg
Bees:	LD ₅₀ Honey bees (acute contact 48 - and 96-hour) > 100 µg/bee

SECTION 13: DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse containers before disposal. Add rinsings to 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 land fill 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.

SECTION 14: TRANSPORT INFORMATION

Classified as not dangerous in the meaning of 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

SECTION 15: REGULATORY INFORMATION

Registration Status: Australian Pesticides and Veterinary Medicines Authority (APVMA) approval number 45923.

SECTION 16: OTHER INFORMATION

Abbreviations:

NA Not Applicable
NDA No Data Available

Revision Date: 25 May 2010
Revision Number: 4

THE INFORMATION GIVEN IN THIS MSDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. 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.