

RESLIN[®]**MATERIAL SAFETY DATA SHEET****STATEMENT OF HAZARDOUS NATURE**

Not classified as hazardous according to the criteria of New Zealand Legislation.

COMPANY DETAILS

AVENTIS CROPSCIENCE PTY LTD, NEW ZEALAND PO Box 31341 20 Pretoria Street Lower Hutt	24 HOUR EMERGENCY RESPONSE NUMBER 0800 734 607	
	NATIONAL POISONS INFORMATION CENTRE (03) 474 7000	
	BUSINESS NUMBER (04) 570 2180	FAX NUMBER (04) 570 2181

IDENTIFICATION

COMMERCIAL PRODUCT NAME	RESLIN [®] Thermal Fogging and ULV Insecticide Concentrate
PROPER SHIPPING NAME	None known
MANUFACTURER PRODUCT CODE	AE F030356 02 EC46 A1
U.N. NUMBER	Not applicable
DANGEROUS GOODS CLASS	Not applicable
HAZCHEM CODE	Not applicable
TOXIC SUBSTANCES SCHEDULE	Poison
PACK SIZE AND CONTAINER TYPE	1 L HDPE drums
USES	A liquid insecticide concentrate for indoor and outdoor use.

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE	Clear yellow to pale brown liquid with mild aromatic odour
BOILING POINT/MELTING POINT	184°C
VAPOUR PRESSURE	Not known
SPECIFIC GRAVITY	0.98 @ 20°C

FLASH POINT	68°C (Abel closed cup)
FLAMMABILITY LIMITS	0.6 – 7.0% (solvent), >450°C auto-ignition
SOLUBILITY	
• IN WATER	• Emulsifies in water
STABILITY AND REACTIVITY	Stable under normal conditions of use and transport
pH	Not known
EXPLOSION HAZARD	Combustible
CORROSIVE HAZARD	Non corrosive

INGREDIENTS

CHEMICAL NAME	CAS NUMBER	PROPORTION
• Bioresmethrin	28434-01-7	50 g/L
• Piperonyl butoxide	51-03-6	100 g/L
• Hydrocarbon solvent	64742-94-5	370 g/L
• Ingredients determined not to be hazardous		160 g/L

HEALTH HAZARDS INFORMATION

HEALTH EFFECTS

ACUTE

- **SWALLOWED**
 - LD50 Oral (Bioresmethrin): Rat 7070 - 8000 mg/kg
 - LD50 Oral (Piperonyl butoxide): Rat 5630 mg/kg
 - Product is harmful if swallowed. Can cause lung damage, headache, dizziness, drowsiness, cramps, nausea, vomiting and diarrhea.
- **EYE CONTACT**
 - Causes eye irritation.
- **SKIN CONTACT**
 - LD50 Dermal (Bioresmethrin): Rat >10 000 mg/kg
 - LD50 Dermal (Piperonyl butoxide): Rabbit >2000 mg/kg
 - Causes irritation and drying of skin.
- **INHALATION**
 - LC50 Inhalation (4 hours)(Bioresmethrin): Rat 5.28 mg/L
 - LC50 Inhalation (4 hours)(Piperonyl butoxide): Rat 5.9 mg/L
 - Avoid breathing vapour, spray and fumes as this may cause irritation to the respiratory system. Can also cause headaches, dizziness, drowsiness and possibly nausea.

CHRONIC

Bioresmethrin shows no evidence of being embryotoxic or teratogenic in animal studies.

Piperonyl butoxide shows no evidence of carcinogenic, mutagenic or teratogenic hazards in animal studies. There is one reference to higher incidences of liver tumors in mice exposed to high levels of this chemical. It is not considered to be harmful to humans at normal

occupational exposure levels.

The solvent was found to cause reversible damage to the liver and kidneys of male rats but these effects are not relevant to humans at occupational levels of exposure.

FIRST AID

IF POISONING OCCURS: contact a doctor or the National Poisons Information Centre.

DO NOT ATTEMPT TO GIVE ANYTHING TO A SEMICONSCIOUS OR UNCONSCIOUS PERSON.

SWALLOWED

If patient is conscious give water to drink. DO NOT INDUCE VOMITING. If breathing stops apply artificial respiration. Seek medical advice immediately. Show this MSDS to a medical practitioner.

EYE CONTACT

Immediately irrigate open eye with copious quantities of water for at least 15 minutes. Seek immediate medical advice. Show this MSDS to a medical practitioner.

SKIN CONTACT

Remove contaminated clothing. Wash affected areas with plenty of soap and water. DO NOT SCRUB THE SKIN.

INHALATION

Move patient into fresh air away from contaminated area. If breathing stops apply artificial respiration. Seek medical advice. Show this MSDS to a medical practitioner.

FIRST AID FACILITIES

Ensure washing facilities and an eyewash station are available.

ADVICE TO DOCTOR

Treat symptomatically. Product contains a hydrocarbon solvent. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary edema.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS

No occupational exposure standards have been established for the product.

Hydrocarbon: manufacturer recommends TWA of 100 ppm.

ENGINEERING CONTROLS

Use in a well-ventilated area only. Avoid ignition sources. Ensure adequate grounding

PERSONAL PROTECTION

Protective clothing: full-length overalls, PVC or nitrile protective gloves, boots, goggles or face shield and a suitable respirator for prolonged or repeated handling.

Wash facilities should be available.

Wash hands, arms and face thoroughly with soap and water after use and before eating, drinking or smoking.

Wash protective clothing and equipment at the end of each day.

FLAMMABILITY

Combustible.

OTHER PRECAUTIONS

To be used strictly in accordance with label instructions.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT**STORAGE**

- **LOCATION** Store in a cool, dry, well-ventilated area away from direct sunlight.
- **SECURITY** Secure storage required to keep product away from children, animals, food, feedstuffs, seed and fertilisers.
- **VENTILATION** Storage area to be well ventilated.
- **TEMPERATURE CONDITIONS** Cool but frost free.
- **WEATHER/SUNLIGHT** Avoid direct sunlight.
- **FLAMMABILITY** Combustible.
- **STORAGE INCOMPATIBILITIES**
 - Avoid heat and ignition sources.
 - Avoid strong oxidising agents and alkalis.
- **CONTAINER/PACKAGE** Store in tightly sealed original container.

TRANSPORT**LAND TRANSPORT** Not classified**MARITIME TRANSPORT** Not classified**AIR TRANSPORT** Not classified**SPILLS AND DISPOSAL****PERSONAL PROTECTION**

Avoid contact with eyes, skin and clothing or inhalation of product. Personal protective clothing: full length overalls, waterproof protective gloves, boots, goggles or face shield and a suitable respirator should be worn when dealing with spills and disposals to minimise the potential for increased personal exposure.

SPILL CONTAINMENT

Deal with spillage immediately.

Keep people away and upwind of the spillage.

Contain the spill by damming, recover spilt product by absorbing with sawdust or an inert absorbent material then transfer the recovered spilt material to a properly labeled drum. Seal the drum and arrange for use or disposal.

Wash down the affected area with water. Absorb washing water with inert material and place in a properly labeled sealable container for subsequent disposal.

Warn the local water authority if contamination of drains, streams, watercourses etc is unavoidable.

Avoid contamination of ponds and waterways.

DISPOSAL

Disposal of contaminated product, waste or packaging should be by

- Burial in an approved landfill away from streams or watercourses.
- Incineration at an authorised installation OR
- As dictated by relevant Local Body regulations.

Contaminated packaging must not be used to store other products.

FIRE/EXPLOSION HAZARD**HAZARDS OF USE/STORAGE** Combustible.**DANGEROUS DECOMPOSITION OR COMBUSTION PRODUCTS**

Stable at normal temperatures but will generate carbon and nitrogen oxides and other irritant/toxic fumes when heated or combusted.

FIRE-FIGHTING RECOMMENDATIONSSee below. Do not use a water jet from a fire hose. Contain run-off.**TYPES OF EXTINGUISHER/FIRE FIGHTING AGENTS**

- Carbon dioxide
- Foam
- Dry powders
- Water spray or fog

PRECAUTIONS

Avoid skin contact and inhalation of product.

PROTECTIVE CLOTHING

Full protective clothing and self-contained breathing apparatus

REACTIVITY

Stable under normal conditions of use and transport. Bioresmethrin decomposes in UV light.

HAZCHEM CODE

Not applicable

OTHER INFORMATION**TOXICITY AND ECOTOXICITY**

The product is very toxic to fish and aquatic organisms. Avoid contamination of ponds, streams and waterways.

Bioresmethrin is very toxic to bees and fish. It degrades in light.

- LC50 (96 hours): Fish 0.00062 – 1.0 mg/L
- EC50 (48 hours): Daphnia 0.0008 mg/L
- Acute Oral LD50: Chickens >10 000 mg/kg

Piperonyl butoxide is not toxic to bees.

- LC50 (24 hours): Carp 5.3 mg/L
- Acute Oral LD50: Starlings >100 mg/kg

CONTACT POINT**EMERGENCY CONTACTS**

POLICE, AMBULANCE OR FIRE BRIGADE	111
EMERGENCY RESPONSE SERVICE (24 hours)	0800 734 607
NATIONAL POISONS INFORMATION CENTRE	03 474 7000

DISCLAIMER

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee.

Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information in this sheet does not represent analytical specifications, for which please refer to our technical data sheet.