

SEVROC PTY.LTD

MATERIAL SAFETY DATA SHEET

1. Chemical Identification

Product Name: **KILL-A-MITE**
 EPA Signal Word: **Poison**
 Active Ingredient: **18 g/L Abamectin** CAS: **71751-41-2**
 Chemical Name: **A mixture of Avermectin B1a (95%W/W) and Avermectin B1b (5%W/W)**
 Chemical Class: **Glycoside Insecticide**

2. Composition / Information on Ingredients

Ingredients:	OSHA PEL	ACGIH TLV	others	NTP/IARC/OSHA Carcinogen
Abamectin (1.8% W/W)	N/E	N/E	0.04 mg/m3*	No.

N/E – not established

3. Hazards Identification

Notes to Physician

There is no specific antidote if this product is ingested.
 Treat symptomatically.
 Induction of emesis is not recommended due to large amounts of solvents in this product, which could cause chemical pneumonitis if aspirated. If ingested, lavage stomach, taking care to avoid aspiration of stomach contents into the lungs.

Symptoms of Acute Exposure

Exposure results in moderate irritation to the eyes. A skin sensitisation (allergic) reaction may occur in some individuals.

Hazardous Decomposition Products

None Known

Physical Properties

Appearance: light amber coloured solution
 Odour: odourless
 Emulsion in water: Milky white

Usual Fire, Explosion and reactivity Hazards

Thermal decomposition products may include, but are not limited to, Carbon Dioxide and Carbon Monoxide. This product is a Class IIIA Combustible Liquid.

4. First Aid Measures

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Centre. Tell the person contacted the complete product name, the type and amount of exposure. Describe any symptoms and follow the advice given.

- Ingestion:** DO NOT INDUCE VOMITING. If victim is fully conscious, give a large quantity of water to drink and get medical attention. Never give anything by mouth to an unconscious person.
- Eye Contact:** Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.
- Skin Contact:** Wash with plenty of soapy water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.
- Inhalation:** Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Induction of emesis is not recommended due to large amounts of solvents in this product, which could cause chemical pneumonitis if aspirated. If ingested, lavage stomach, taking care to avoid aspiration of stomach contents into the lungs.

Medical Condition likely to be aggravated by Exposure

Individuals with allergy history or pre-existing dermatitis should use extra precautions in handling this product.

5. Fire Fighting Measures

Fire and Explosion

Flash point:	greater than 100 deg.C
Flammable Limits:	Lower: %; Upper: % Not Available
Autoignition Temperature:	Not Available
Flammability:	Not Applicable

Usual Fire, Explosion and reactivity Hazards

Thermal decomposition products may include, but are not limited to, Carbon Dioxide and Carbon Monoxide. This product is a Class IIIA Combustible Liquid.

In Case of Fire

Use dry chemical, foam or Carbon Dioxide extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, areas and equipment until decontaminated.

6. Accidental Release Measures

In Case of Spill or Leak

Wear chemical goggles or a full-face shield, rubber gloves, rubber boots, long sleeved shirt, long pants, head covering and an Australian Standard – approved chemical cartridge respirator with organic vapour cartridges for pesticide use or a self-contained breathing apparatus. For small spills, cover affected area with an absorbent, such as pet litter. Sweep up and place in an approved container Wash affected area with strong soapy water, absorb with an absorbent, sweep up and place in a chemical container. Seal the container and

handle in an approved manner. Flush the area with water to remove any residue. DO NOT ALLOW wash water to contaminate water ways.

7. Handling and Storage

Store the material in a well ventilated, secure area out of reach of children and domestic animals. DO NOT store food, beverages or tobacco supplies in this storage area. Prevent eat, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. ALWAYS wash hands after handling containers.

8. Exposure Controls / Personal Protection

The following recommendations for exposure control / personal projections are intended for: The manufacturer, formulation and packaging of the product. For commercial application and on-farm application consult the product label.

Ingestion:	Prevent eating, drinking, tobacco usage and cosmetic application in ares where there is a potential for exposure to the material. ALWAYS wash hands thoroughly after handling product.
Eye Contact:	To avoid eye contact, wear chemical goggles or a full-face shield.
Skin Contact:	To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.
Inhalation:	To avoid breathing vapour or mist, wear an Australian Standards chemical cartridge with organic vapour cartridge.

9. Physical and Chemical Properties

Appearance:	Slight amber to straw colour
Odour:	Not applicable
Melting Point:	Not applicable
Boiling point:	> 100 deg.C
Specific gravity:	0.915 g/ml
pH[5%sol.]	5-7
Solubility:	emulsifies in water (milky white in appearance)
Vapour pressure:	Not available

10. Stability and Reactivity

Reactivity

Stability: Stable under standard conditions

Hazardous
Polymerisation: Will not occur

Conditions to
Avoid: None known

Hazardous Decomposition products

None known

11. Toxicological Information

Acute toxicity / Irritation studies

Ingestion:	Moderately toxic – Oral LD50(RAT)	300mg/kg body weight
Dermal:	Slightly toxic – Dermal LD50(RABBIT)	>1800mg/kg body weight
Inhalation:	Slightly toxic – Inhalation LD50(RAT)	3.5mg/L – 4 hours
Eye Contact:	Moderately irritating (RABBIT)	
Skin Contact:	Not available	
Skin Sensitisation:	Sensitising (Guinea Pig)	

Mutagenic potential

Abamectin: None observed (Ames Test and Micronucleus Test)

Reproductive Hazard Potential

Abamectin: Reproductive toxin in animal studies at doses acutely toxic to the maternal animal.

Chronic / Sub chronic Toxicity Studies

Abamectin: Central Nervous System effects in animals

Carcinogenic Potential

Abamectin: None observed

Other Toxicity information

Non active ingredients: None observed

12. Ecological InformationSummary of Effects

Abamectin: Highly toxic to fish and bees and extremely toxic to aquatic invertebrates. Not bioconcentrateable in fish.

Non – toxic to birds LD50 (bob white quail) >2000mg/kg body weight

Eco- Acute Toxicity

Abamectin:	Rainbow Trout- 96hour LC50	3.6ppb
	Bluegill Sunfish- 96hour LC50	9.6ppb
	Daphnia magna 48hour LC50	0.34ppb
	Bobwhite quail 8-day Dietary LC50	3102ppm
	Mysid Shrimp 48hour LC50	0.022ppb
	Mallard duck Dietary LC50	383ppm

Eco-Chronic Toxicity

Abamectin: Not available

Environmental Fate

Abamectin: The formulation (non active ingredients) is readily biodegradable.

Breakdown in soil and ground water- Abamectin is rapidly degraded in soil. At the soil surface Abamectin is subject to rapid photodegradation, with half-life of 8hours – 1 day. When applied to the soil surface and not shaded, its half-life is about 1 week. Under dark, aerobic conditions its half life is 2 weeks – 2 months. The rate of degradation is significantly decreased under anaerobic conditions.

Abamectin is insoluble in water and has a strong tendency to bind to soil particles. It is immobile in soil and unlikely to contaminate ground water.

Breakdown in water - Abamectin is rapidly degraded in water. After initial distribution, its half -life in water is 4 days. Its half – life in pond sediment is 2 – 4 weeks. Abamectin does not hydrolyse in waters of pH 5, 7 and 9.

Breakdown in vegetation – Plants do not absorb Abamectin from the soil and is rapidly degraded in the presence of light, with a half –life 4 – 6 hours present as a thin film on the surface of leaves.

13. Disposal Consideration

Disposal

Dispose of product containers if not re-cycling in accordance with local, state and federal health and environmental regulations.

14. Transportation

DOT Classification:

Pesticides, liquid, Toxic, N.O.S., (Abamectin Solution), 6.1, UN2902, PGIII

B/L Freight Classification

Insecticides or Fungicides; Agricultural, N.O.S

International transport

Pesticides, liquid, Toxic, N.O.S., (Abamectin Solution), 6.1, UN2902, PGIII

15. Other information

Note: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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