

SAFETY DATA SHEET

HORTCARE™ Abamectin

SECTION 1: Identification of the substance and supplier

Product name: HORTCARE Abamectin
Recommended Use: Insecticide, miticide

Company: Grosafe Chemicals Ltd.
Address: 20, Jean Batten Drive, Mt Maunganui. P.O. Box 14-450 Tauranga
Email: info@grosafe.co.nz
Telephone Toll Free Number:
Emergency Telephone Number: 0800 CHEMCALL (0800 243622)
(EMERGENCIES ONLY)

Date of Issue: June 2017

SECTION 2: Hazards Identification

HSNO Hazard Classification: 3.1D (combustible), 6.1D (harmful by ingestion), 6.3A (skin irritant), 6.4A (eye irritant), 6.8A (human reproductive toxicant), 6.9B (harmful to target organs), 9.1A (very toxic to aquatic organisms), 9.2C (harmful in the soil environment), 9.3B (toxic to terrestrial vertebrates), 9.4A (very toxic to terrestrial invertebrates)

SECTION 3: Composition/information on ingredients

| <u>Ingredients</u> | <u>CAS Number</u> | <u>Content</u> |
|--------------------|-------------------|----------------|
| abamectin | 71751-41-2 | ~2% |

SECTION 4: First Aid Measures

Skin contact: Wash with soap and water. Wash contaminated clothing before reuse.

Eye contact: Flush eyes with clean water. If irritation persists consult a doctor

Ingestion: Drink a glass of water. DO NOT induce vomiting. Call a doctor.

Inhalation: Move to fresh air. If symptoms develop call a doctor..

Advice to doctor : Decreased activity, slow rate of breathing, dilation of the pupils, muscle tremors and lack of coordination. No specific requirements, treat symptomatically.

Consult The National Poisons Information Centre, 0800 POSITION (0800 764 766), or a Doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

SECTION 5: Fire Fighting Measures

| | |
|--|---|
| Flammable properties: | Combustible liquid |
| Polymerisation: | Not known to occur. |
| Hazardous Decomposition Products: | None expected |
| Fire & Explosion Hazards: | Will support a fire |
| Special Fire Fighting procedures: | Evacuate personal to a safe area. Wear breathing apparatus and full protective clothing. Do not allow water from fire-fighting to enter water supplies, or drainage systems |
| Extinguishing Media: | Water fog, foam, CO ₂ , or dry chemical extinguishers. |

SECTION 6: Accidental Release Measures

Wear appropriate protective equipment (see Section 8). Clear the area of all unprotected personnel. Prevent entry of chemical or used/damaged containers into sewers, drains, streams or waterways. If necessary, inform the police and the Regional Council. For the purposes of complying with Hazardous Substances (Disposal) Regulations (2001) this SDS must be made available within 10 minutes to any person using the product.

| | |
|--------------|--|
| Small Spill: | Sweep up and place in secure containers for disposal. If spill area is near trees or valuable plants remove the top 50 mm soil after product retrieval. |
| Large Spill: | Wear protective clothing and equipment (see Section 8). Stop further release of spilled material. Sweep up and place in secure containers for disposal. If spill area is near trees or valuable plants remove the top 50 mm soil after product retrieval. If further information is required, telephone Grosafe Chemicals Ltd. at (07) 579 0497. |

SECTION 7: Handling and Storage

Handling

Avoid contact with eyes and skin. Keep away from food, drink and animal feedstuffs. After work, remove protective clothing, and wash hands before eating, smoking, drinking or using the toilet. Clean up spilled material immediately, and wash clothes, equipment and work area after use.

Storage

Keep out of reach of children and animals. Store in tightly closed original containers in a cool, dry, well-ventilated area, out of direct sunlight. Do not store with food, feedstuffs, fertilisers and seeds.

This substance is subject to a requirement for an emergency management response plan, secondary containment and signage, whenever it is held in quantities of 100 kg or more, either alone or in aggregate with other hazardous substances. See Hazardous Substances (Emergency Management) Regulations 25 to 42.

SECTION 8: Exposure Control/Personal Protection

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material, Wash thoroughly with soap and water after handling.

SECTION 8: Exposure Control/Personal Protection (cont.d)

Eye Contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits.

SECTION 9: Physical and Chemical Properties

| | |
|-------------------------------|---------------------------------------|
| Appearance: | Yellow liquid |
| Odour | Aromatic odour |
| Density: | ca. 0.93 @ 25 °C |
| Solubility in water: | Forms an emulsion |
| Corrosiveness: | Not corrosive |
| Flammability /combustibility: | Combustible (flash point: > 60° C.) |

See also Section 5 and 10

SECTION 10: Stability and Reactivity

| | |
|-----------------------------------|---|
| Chemical Stability: | Stable under normal storage conditions |
| Materials to avoid: | None especially. |
| Hazardous Decomposition Products: | If product is involved in a fire, carbon dioxide, carbon monoxide, may be formed. |
| Hazardous polymerisation: | Not known to occur |

SECTION 11: Toxicological Information

Health effects: See symptoms of Exposure in Section 4

HEALTH EFFECTS

Acute Toxicity

Swallowed: MODERATE TOXICITY

Tests on rats indicate a moderate toxicity following single doses of the undiluted product. (LD50 = 0.312 ml/kg) ca. 325mg/kg .

Dermal MODERATE TOXICITY

absorption: Tests on rats indicate a moderate toxicity due to skin contact with the undiluted product. (LD50 >1400 mg/kg)

Inhaled: LOW TOXICITY

Tests on rats indicate a slight toxicity due to inhalation of the undiluted product (LC50 (4 h) 3.5 mg/litre air

Irritation

Eye: MODERATE IRRITANT

Skin: MODERATE IRRITANT (rabbits)

Skin Sensitisation: - (based on results of technical on guinea pigs) NON-SENSITISER

SECTION 12: Environmental Information

ECOTOXICITY

LC50 (96 hrs) : Rainbow trout 3.66 µg/L
Oral LD50: Mallard Duck: 84.6 mg / kg.
Oral LD50: Bobwhite Quail: > 2,000 mg / kg.
Daphnia magna: EC50 : 0.34 µg/l – [48 hr exposure]
Bee, contact LD50: 0.002 µg/ bee. Oral LD50: 0.009 µg/ bee.

SECTION 13: Disposal Considerations

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to regional or local body bylaws. See disposal instructions on label.

SECTION 14: Transport Information

UN Number: 2902
UN Shipping Name: PESTICIDE, LIQUID, TOXIC, N.O.S. (CONTAINS ABAMECTIN 1.9%)
MARINE POLLUTANT: yes
UN Packing Group: III
Hazchem Code: 2 Z

SECTION 15: Regulatory Information

Hortcare Abamectin is a registered product under the ACVM Act 1997 (P 8695).
Hortcare Abamectin is approved under the HSNO Act 1996 (HSR000734).
See www.epa.govt.nz for approval conditions

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. No warranty, express or implied is made since we cannot anticipate or control the conditions under which the product may be used.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Grosafe Chemicals Ltd.