



GLOBAL AGRICHEM

## SAFETY DATA SHEET

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Suite 4, level 1, 38 Whitaker Place, Grafton  
Auckland, New Zealand  
Tel: +64 09 972 9837  
Fax: +64 09 353 1736  
info@globalagrlichem.co.nz

Trade name: **SAVER**

Date of issue: 01 July 2015  
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### 1. Identification of the Substance and Supplier.

**Product name:** Saver

**Recommended Use:** Insecticide for the control of leaf rollers on avocados, grapes, kiwifruit and pipfruit.

**Company Details:** Global Agrichem Limited  
Suite 4, level 1, 38 Whitaker Place Fungicide for use in Agricultural and Horticultural crops.  
Grafton, Auckland  
New Zealand

**Web Address:** [www.globalagrlichem.co.nz](http://www.globalagrlichem.co.nz)

**E-mail Address:** [info@globalagrlichem.co.nz](mailto:info@globalagrlichem.co.nz)

**Telephone number:** (09) 972 9837

**Emergency Telephone:** National Poisons and Hazardous Chemicals Information Centre  
Dunedin. Phone: 0800 POISON (0800 764-766)

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### 2. Hazards identification.

Classified by EPA as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

#### HSNO Hazard Classification:

6.1D: May be harmful if swallowed, inhaled or absorbed through the skin.  
6.8B: Harmful - May cause reproductive/development damage from repeated oral exposure.  
6.9B: Harmful - May cause peripheral and/or central nervous system damage from repeated oral exposure at high doses.  
8.3A: Corrosive - May cause eye damage  
9.1A: Very toxic to aquatic organisms  
9.3B: Toxic to terrestrial vertebrates  
9.4A: Very toxic to terrestrial invertebrates  
Emamectin benzoate (CAS155569-91-8): 6.1D, 6.8B, 6.9B.

#### Precautions:

KEEP OUT OF REACH OF CHILDREN.  
Avoid contact with skin, eyes (DANGER: Eye corrosive) and inhalation of spray mist.  
When handling, wear protective clothing, including goggles or face shield, waterproof gloves and footwear.  
Toxic to bees. Spray MUST NOT contact plants in flower if bees are actively foraging.  
Records of use must be kept.  
Avoid contamination of any water supply with product or empty containers

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### 3. Composition/Information on Ingredients

Ingredient	CAS Number	Content (% w/w)
Emamectin benzoate 95%	155569-91-8	5.3
Sodium Lignosulfonate	8061-51-6	6.0
Sodium dodecyl sulfate	151-21-3	3.0
Ammonium sulphate	7783-20-2	30.0
Other non hazardous ingredients		To 100%

### 4. First aid measures

- First Aid:** For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
- Inhalation:** Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
- Ingestion:** Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
- Skin Contact:** Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
- Eye Contact:** Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.
- First Aid Facilities:** Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
- Advice to Doctor:** There is no antidote. Treat symptomatically and give supportive therapy.

### 5. Fire-fighting measures

**Suitable extinguishing media:**

Water fog, foam, carbon dioxide or dry chemical.

**Hazards from combustion:**

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion (oxides of sulphur, nitrogen and carbon)

**Special protective equipment for fire fighters:**

Wear full protective clothing and self-contained breathing apparatus in enclosed areas.



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### Special fire-fighting methods:

Keep upwind. Do not allow run-off from firefighting to enter sewage, effluent systems, drains or water courses.

Hazchem Code: 2X

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## 6. Accidental release measures

### Spills and Disposal:

Exclude non-essential people from the area (bystanders)  
Wear protective clothing.  
Contain the spill and absorb liquid with absorbent material (e.g. sand, soil or absorbent granules).  
If spill does enter waterways, contact the local authority.  
Collect the absorbed spill in an appropriate sealable container for disposal in an approved landfill.  
Decontaminate the spill area with detergent and water. Absorb with inert material and dispose of waste safely in an approved landfill.

**Personal Protection:** Ensure suitable personal protection (PPE). Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.

### Environmental precautions:

Prevent washings from entering surface water drains or waterways.

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## 7. Handling and storage

### Precautions for safe handling:

Do not apply this product onto or into water.  
Avoid skin and eye contact and inhalation of spray mist  
Approved handler: This product must be under the control of an approved handler when applied in a wide dispersive manner or used by a commercial contractor.  
Tracking: Not required for this product  
Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept.

### Conditions for Safe Storage:

Keep out of reach of children.  
Store in the original container tightly closed in a locked dry cool dark area away from foodstuffs.  
Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals.  
Stores containing 100kg or more of Saver require signage and secondary Containment (9.1A).

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### 8. Exposure controls/personal protection

**Occupational exposure limit values:**

No exposure limits (WES, TEL or EEL's) have been specifically assigned to this product.

Tels: ADE 0.002mg/kg bw/day

PDE<sub>FOOD</sub>: 0.0016mg/kg bw/day

PDE<sub>DRINKING WATER</sub>: 0.0004mg/kg bw/day

**Engineering controls:** No special requirements. Product is used outdoors. Handle in well ventilated areas. Generally, natural ventilation is adequate. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**Personal Protective Equipment:**

When opening the container, preparing the spray or applying the product, wear safety goggles, waterproof gloves, waterproof hat, cotton overalls and boots.

**Hygiene Measures:**

Do not eat, drink or smoke while using the product.

Remove protective clothing and wash hands and face thoroughly before meals and after work.

Wash protective clothing daily after work.

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### 9. Physical and chemical properties

**Appearance:** Granule  
**Colour:** Light brown  
**Odour:** No characteristic odour  
**Flash Point:** Not flammable  
**pH:** 5.0 - 8.0  
**Water solubility:** Soluble

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### 10. Stability and reactivity

**Chemical Stability:** Stable under normal conditions of handling and storage.

**Conditions to Avoid:** Heat and light

**Hazardous decomposition products:**

Combustion or decomposition at high temperatures will evolve toxic and irritating gasses.

**Hazardous Polymerisation:**

Hazardous Polymerisation does not occur.

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### 11. Toxicological information

**HSNO Classification:**

- 6.1D: May be harmful if swallowed, inhaled or absorbed through the skin.
- 6.8B: Harmful - May cause reproductive/development damage from repeated oral exposure.
- 6.9B: Harmful - May cause peripheral and/or central nervous system damage from repeated oral exposure at high doses.
- 8.3A: Corrosive - May cause eye damage

**Acute Toxicity:** Acute Oral LD<sub>50</sub> rat: 1516mg/kg  
Acute Dermal LD<sub>50</sub> rat: > 2000 mg/kg  
Inhalation LC<sub>50</sub> (4 h) rat: 6.28 mg/l

**Irritation:** Not a skin irritant.  
Not an eye irritant. DANGER: Eye corrosive.

**Sensitization:** Not a sensitiser (HSNO Classification)

**Chronic Effects:** Emamectin benzoate technical has been extensively tested on laboratory mammals and in test-tube systems. It did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

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### 12. Ecological Information

**HSNO Classification:** 9.1A: Very toxic to aquatic organisms  
9.3B: Toxic to terrestrial vertebrates  
9.4A: Very toxic to terrestrial invertebrates

**Ecotoxicity:** Very Toxic to aquatic life with long lasting effects. Do not release into the environment.  
Ecotoxicological data has not been determined specifically for this product. Data given is for the active ingredient Emamectin benzoate.

**Acute Toxicity to Fish:** Sheepshead minnow LC<sub>50</sub> (96 hour): 1.2 mg/l  
Carp LC<sub>50</sub> (96 hour): 1430µg/l

**Acute Toxicity Aquatic Organisms:**  
Daphnia LC<sub>50</sub> (48 hour): 0.08 mg/l  
Green algae EbC<sub>50</sub> (72 hour): 28.4mg/l  
Green algae ErC<sub>50</sub> (72 hour): 157mg/l

**Acute Toxicity Vertebrates (Birds):**  
Mallard duck LD<sub>50</sub>: 46mg/kg  
Bobwhite Quail LD<sub>50</sub>: 264mg/kg

**Acute Toxicity to Soil Dwelling Organisms:**  
Earthworms LC<sub>50</sub> (14 days): 283 mg/kg



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### Acute Toxicity to Terrestrial Invertebrates:

Honey bee oral LD<sub>50</sub>: 0.0036µg/bee

**Environmental Fate:** Emamectin benzoate is not persistent in water: Half life 0.4-1.74 days. Not persistent in soil: Half life 0.335-2.56 days. Stable in water, immobile in soil.

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### 13. Disposal considerations

**Product disposal :** Dispose of this product only by using according to the label or at an approved landfill or other approved facility.

**Container disposal :** Triple rinse the empty container adding the rinsate to the spray tank. Recycle if possible, otherwise crush and bury in an approved local authority facility. Avoid contamination of any water supply with product or empty container. Do not use container for any other purpose.

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### 14. Transport regulations

**Dangerous Goods:** Classified as dangerous goods for transport (9.1A)

**Rail /Road /Sea:** UN Number: 3077  
Class: 9  
Packaging Group: III  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE  
SOLID, N.O.S. (Emamectin benzoate)  
Hazchem Code: 2X

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### 15. Regulatory information

HSNO Approval Number: HSR101012  
HSNO Controls: Refer to [www.epa.govt.nz](http://www.epa.govt.nz) .  
ACVM Approval: Registered pursuant to the ACVM Act 1997 No: P9187  
ACVM Registration conditions: See: [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)

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### 16. Other information

**Abbreviations:** ACVM: Agricultural Chemicals and Veterinary Medicines Group.  
ADE: Workplace Exposure Standards  
CAS Number: Chemical Abstracts Service Number  
EC<sub>50</sub>: Half Maximal Effective Concentration 50% (Population)  
EbC<sub>50</sub>: Half Maximal Effective Concentration (Reduction of Biomass)  
ErC<sub>50</sub>: Half Maximal Effective Concentration (Reduction of Growth Rate)  
EEL: Environmental Exposure Limit  
EPA: Environmental Protection Authority of New Zealand  
HSNO: Hazardous Substances and New Organisms ACT 1966  
LD<sub>50</sub>: Lethal Dose 50% (Population)



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LC<sub>50</sub>: Lethal Concentration 50% (Population)  
PDE: Potential Daily Exposure  
TEL: Tolerable Exposure Limit  
WES: Workplace Exposure Standard

**General:** Saver is an an insecticide for the control of leaf rollers on avocados, grapes, kiwifruit and pipfruit. Read the Label before use.

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*This SDS supersedes all previous issues. It summarises our best knowledge of the health and safety hazard information of the product. All users should read this SDS 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. Since the actual use of this product is beyond the control of Global Agrichem Ltd, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.*

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