VENDEX® Miticide

1. Identification

GHS Product Identifier: VENDEX® Miticide
Product Code: 0697
Product Type: Group 12B Insecticide
Company Name: Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
Address: Unit 17/16 Metroplex Avenue Murarrie Queensland 4172 Australia
Telephone/Fax Number: Tel: +61 7 3909 2000 Fax: +61 7 3909 2010
Emergency phone number: 1800 033 498 (24hr Australia)

Recommended use of the chemical and restrictions on use:
For the control of certain mites in fruit, hops and ornamentals as indicated in the Directions for Use table on the label.

Other Information:
This Safety Data Sheet describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

GHS classification of the substance/mixture:
- GT/VT/IT 2 Acute Toxicity - Inhalation: Category 2
- SC-2 Skin Corrosion/Irritation: Category 2
- ED2A Eye Damage/Irritation: Category 2A

Signal Word (s): DANGER

Hazard Statement (s):
- H330 Fatal if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

General Precautionary Statement(s):
- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

Pictogram (s):
- Corrosion, Skull and crossbones

Precautionary statement – Prevention:
- P260 Do not breathe spray.
- P284 Wear respiratory protection.
- P280 Wear protective gloves, clothing, eye and face protection.
- P264 Wash hands and exposed skin thoroughly after handling.

Precautionary statement – Response:
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P320 Wash with plenty of soap and water.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P320 Wash with plenty of soap and water.
- P320 Take off contaminated clothing and wash before reuse.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other Information:
Poisons Schedule S6

3. Composition/information on ingredients

Chemical Characterization

<table>
<thead>
<tr>
<th>Chemical Characterization</th>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td></td>
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</tbody>
</table>

Print Date: 8/04/2014
4. First-aid measures

**Inhalation**
Remove affected person to fresh air until recovered. If breathing is difficult, oxygen may be given by a trained person.
If symptoms develop or persist, seek medical advice immediately.

**Ingestion**
If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

**Skin**
Wash affected areas thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

**Eye contact**
Treat symptomatically.

**Advice to Doctor**

5. Fire-fighting measures

**Suitable extinguishing media**
If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.

**Hazards from Combustion**
If involved in a fire, the dehydrated components may emit oxides of carbon and oxides of tin.

**Special Protective Equipment for firefighters**
Breathable air apparatus should be worn when fighting a fire in which this product is involved.

**Other Information**
STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

**Spills & Disposal**
Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).
Collect spilled material and waste in sealable open-top type containers for disposal.

**Personal Protection**
For appropriate personal protective equipment (PPE), refer Section 8.

**Environmental Precautions**
Use earthen bunds or absorbent bunding to prevent spreading of spillage.

7. Handling and storage

**Precautions for Safe Handling**
Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.
Store in the closed, original container in a cool, well ventilated area.
Do not store for prolonged periods in direct sunlight.

**Other Information**
Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

**Other Exposure Information**
Other exposure limits are:-
Tin, organic compounds (as Sn)
TWA 0.1mg/m³; STEL 0.2mg/m³.
Use in a well ventilated area only.

**Appropriate engineering controls**

**Respiratory Protection**
Do not inhale spray mist.
If exposure to vapour or spray is expected, a half face respirator with cartridge type P3 is recommended.

**Personal Protective Equipment**
When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.
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Hygiene Measures
When using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves.
After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
After each day's use, wash contaminated clothing and safety equipment.

Requirements Concerning Special Training
Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Form
Liquid

Appearance
Opaque white viscous liquid

Odour
Mild chemical odour

Solubility in Water
Disperses in water.
Solubility of fenbutatin oxide is 0.0127 mg/L @ 20°C

Specific Gravity
1.1 g/ml

Vapour Pressure
3.9 x 10^-8 mPa @ 20°C for fenbutatin oxide

Flammability
Non combustible material.

10. Stability and reactivity

Chemical Stability
Stable under normal conditions.

Incompatible Materials
Corrosive to mild steel and tin.

Hazardous Polymerization
Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicity Information
No harmful effects are expected if the precautions on the label and this MSDS are followed.

Acute Toxicity - Oral
LD50 (rat) >3000 mg/kg for fenbutatin oxide

Acute Toxicity - Dermal
LD50 (rat) >1000 mg/kg for fenbutatin oxide

Acute Toxicity - Inhalation
LC50 (rat) (4hr) 0.046 mg/l

Ingestion
Possible symptoms of exposure include: irritation of the respiratory tract with symptoms including coughing, discomfort, difficulty breathing or shortness of breath.

Inhalation
Inhalation of vapours (from heating), mists or aerosols may produce respiratory irritation.

Skin
Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.

Eye
May irritate the eyes.

Skin Sensitisation
Product is not a skin sensitisier.

Carcinogenicity
Data indicates no carcinogenic effects.

Reproductive Toxicity
No such effects have been observed in the absence of maternal toxicity.

Serious eye damage/irritation
The product is an eye irritant.

Mutagenicity
Data indicates no mutagenic effects.

Skin corrosion/irritation
The product is a skin irritant.

Other Information
The Australian Acceptable Daily Intake (ADI) for fenbutatin oxide for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical
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### 12. Ecological information

#### Known Harmful Effects on the Environment

The product is a marine pollutant for sea transport.

#### Other Precautions

Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

### Acute Toxicity - Fish

The following is data for the active ingredient, fenbutatin oxide.

- Toxic to fish. LC50 (96hr) for rainbow trout is 0.00127 mg/l.
- LC50 (24hr) for fenbutatin oxide is 0.05 - 0.08 mg/l.

### Acute Toxicity - Daphnia

Bees: Not toxic to bees. LD50 for fenbutatin oxide is >200 µg/bee.

### Acute Toxicity - Other Organisms

#### 13. Disposal considerations

**Product Disposal**

On site disposal of the concentrated product is not acceptable.

Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

**Container Disposal**

Do not use this container for any other purpose.

To triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.

If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility.

DO NOT burn empty containers or product. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

### 14. Transport information

**Transport Information**

It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

**UN Number (Sea Transport)**

3082

**IMO Class/Packing Group**

Class 9; Packing Group III

**IMO Proper Shipping Name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Contains Fenbutatin oxide 48%

### 15. Regulatory information

**Poisons Schedule**

S6

**Other Information**

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 68860.

### 16. Other Information

**Date of preparation or last revision of SDS**

17/03/2014
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Product Name VENDEX® Miticide

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Contact
Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions
First Issue

Highlighted

Other Information
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...End Of MSDS...