

## Virex

## HAZARDOUS, NON-DANGEROUS GOODS

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

<b>Product name:</b>	Virex
<b>Recommended use:</b>	Biological insecticide
<b>Supplier:</b>	Grochem Agrinova New Zealand Limited
<b>Company No:</b>	9429036821501
<b>Street address:</b>	15 Sunlight Grove Porirua New Zealand
<b>Telephone:</b>	+64 4 237 0905
<b>Email:</b>	grochem@grochem.com
<b>Emergency telephone:</b>	New Zealand 0800 CHEMCALL – 24 hours (0800 243 6225)  Australia 1800 127 406 Other locations +64 4 917 9888  or The National Poisons Centre 0800 POISON (0800 764 766)

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of EPA New Zealand.

**HSNO Approval Code:** HSR000109



<b>Signal Word:</b>	Warning
<b>Hazard Classifications:</b>	6.5B Substances that are contact sensitisers 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action (H401)
<b>Hazard Statements:</b>	H317 May cause an allergic skin reaction. H401 Toxic to aquatic life.
<b>Prevention Precautionary Statements:</b>	P102 Keep out of reach of children. P103 Read label before use. P261 Avoid breathing dust, fume, gas, mist, vapours or spray. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.
<b>Response Precautionary Statements:</b>	P101 If medical advice is needed, have product container or label at hand. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P321 Specific treatment (see product label). P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse.
<b>Storage Precautionary Statement:</b>	Not allocated

<b>Disposal Precautionary Statement:</b>	P501 Dispose of contents/container in accordance with local, regional, national and international regulations.
<b>Dangerous Good Classification:</b>	Not classified as Dangerous Goods by the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail and the New Zealand NZS5433: Transport of Dangerous Goods on Land.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Classification & type:

Material	CAS No.	Proportion (%w)
Cydia pomonella granulovirus	-	0.07 % (w/v)
Ingredients determined to be Non-Hazardous		Balance

### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

<b>Inhalation:</b>	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
<b>Skin Contact:</b>	Effects may be delayed. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.
<b>Eye contact:</b>	If in eyes wash out immediately with water. In all cases of eye contamination, it is a sensible precaution to seek medical advice.
<b>Ingestion:</b>	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.
<b>PPE for First Aiders:</b>	Wear gloves. Available information suggests that gloves made from natural rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
<b>Notes to physician:</b>	Treat symptomatically. Effects may be delayed.

### 5. FIRE FIGHTING MEASURES

<b>Hazchem Code:</b>	Not applicable.
<b>Suitable extinguishing media:</b>	If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).
<b>Specific hazards:</b>	Non-combustible material.
<b>Firefighting further advice:</b>	Not applicable.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Small Spills:</b>	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal. Dispose of collected material at an approved landfill.
<b>Large Spills:</b>	Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services. Dispose of collected material at an approved landfill.
<b>Dangerous Goods - Initial Emergency Response Guide No:</b>	Not applicable.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Wear appropriate PPE as detailed in Section 8.3.
<b>Storage:</b>	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks. Product is stable for 2 years when stored in a refrigerator or freezer (< 4C). If stored at ambient temperature, product is stable for approx. 1 month only. Separate from foodstuffs.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National occupational exposure limits:</b>	No value assigned for this specific material by WorkSafe New Zealand.
<b>Biological Limit Values:</b>	As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.
<b>Engineering Measures:</b>	Natural ventilation should be adequate under normal use conditions.
<b>Personal Protection Equipment:</b>	GLOVES. Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. When handling individual retail packs, no personal protection equipment is required. Employ good personal hygiene. Wash hands after handling. Wear gloves. Available information suggests that gloves made from natural rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
<b>Hygiene measures:</b>	Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Clear Liquid	<b>Flash Point (°C)</b>	>100°C
<b>Colour</b>	Grey/brown	<b>Boiling Point/Range (°C)</b>	>100°C
<b>Solubility</b>	Soluble in water	<b>pH</b>	6 - 7
<b>Specific Gravity</b>	1.1		

(Typical values only)

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under normal conditions. Risk of decomposition and polymerisation at higher temperatures
<b>Conditions to avoid:</b>	High temperatures
<b>Incompatible materials:</b>	Avoid contact with oxidising agents
<b>Hazardous decomposition products:</b>	At temperatures > 280°C, acrolein may be formed
<b>Hazardous reactions:</b>	At elevated temperatures there is a risk of exothermic polymerisation (>200°C)

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

Inhalation:	Material may be an irritant to mucous membranes and respiratory tract.
Skin contact:	Contact with skin may result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
Ingestion:	Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Eye contact:	May be an eye irritant.

**Acute toxicity**

Inhalation:	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist or LC50 > 5,000 ppm gas
Skin contact:	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5,000 mg/Kg bw
Ingestion:	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5,000 mg/Kg bw LD50 (Rat): >12600 mg/kg
Corrosion/Irritancy:	Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.
Sensitisation:	Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified 6.5B - Substances that are contact sensitisers.
Aspiration hazard:	This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):**

This material has been classified as non-hazardous.

**Chronic Toxicity**

**Mutagenicity:** This material has been classified as non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):**

This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):**

This material has been classified as non-hazardous.

**12. ECOLOGICAL INFORMATION**

Avoid contaminating waterways.

**Acute aquatic hazard:**

9.1D - Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

48hr EC50 (algae): > 2900 mg/L

96hr LC50 (fish): > 5000 mg/L

**Long-term aquatic hazard:**

This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.

**Ecotoxicity in the soil environment:** This material has been classified as non-hazardous.

**Ecotoxicity to terrestrial vertebrates:** This material has been classified as non-hazardous.

**Ecotoxicity to terrestrial invertebrates:** This material has been classified as non-hazardous.

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

**13. DISPOSAL CONSIDERATIONS**

Product disposal: Use as directed on the label or dispose of at an approved facility. Container disposal: Rinse and recycle or bury at an approved landfill.

**14. TRANSPORT INFORMATION**

**Road and Rail Transport:** Not classified as Dangerous Goods by the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail and the New Zealand NZS5433: Transport of Dangerous Goods on Land.

<b>Marine Transport:</b>	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
<b>Air Transport:</b>	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
 The Stockholm Convention (Persistent Organic Pollutants)  
 The Rotterdam Convention (Prior Informed Consent)  
 Basel Convention (Hazardous Waste)  
 International Convention for the Prevention of Pollution from Ships (MARPOL)

<b>HSNO Approval Code:</b>	HSR000109
<b>Approved handler</b>	No
<b>Location test certificate</b>	No
<b>Fire extinguishers</b>	No
<b>Signage</b>	Yes
<b>Emergency response</b>	Yes
<b>Hazardous atmosphere zone</b>	No

## 16. OTHER INFORMATION

**Reason for issue:** Revised

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

This SDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of GroChem, it is the user's responsibility to determine conditions of safe use of the product.