



# Material Safety Data Sheet

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Infosafe No™ 3NU30 Issue Date : November 2011 ISSUED by CRPCARE

Product Name **VIVA Fungicide**

Not classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** VIVA Fungicide  
**Product Code** 5144  
**Product Type** Group 3 Fungicide  
**Company Name** Crop Care Australasia Pty Ltd (ABN 53 061 362 347)  
**Address** Unit 15/16 Metroplex Avenue Murarrie  
Queensland 4172 Australia  
**Emergency Tel.** 1800 033 498 (24hr Australia)  
**Telephone/Fax Number** Tel: +61 7 3909 2000  
Fax: +61 7 3909 2010  
**Recommended Use** For the control of powdery mildew, scab or black spot on apples, scab on pears and powdery mildew on wine grapes as per the Directions for Use table on the label.  
**Other Information** This MSDS 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. HAZARDS IDENTIFICATION

**Hazard Classification** Not classified as hazardous  
NON-HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Other Information** Poisons Schedule : Not Scheduled

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Hexaconazole	79983-71-4	50 g/L
	Propylene Glycol	57-55-6	10-30 %
	Other ingredients (considered non-hazardous)		0-10 %
	Water		Balance

## 4. FIRST AID MEASURES

**Inhalation** Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.  
**Ingestion** Rinse mouth thoroughly with water.  
Give a glass of water.  
If vomiting occurs, give more water to drink to assist dilution.  
**Skin** Any skin contaminated with the concentrate must be thoroughly washed with soap and water.  
Remove contaminated clothing and launder before re-use.  
If irritation persists, seek medical advice.  
**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
Seek medical advice if irritation develops or persists.  
**First Aid Facilities** If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.  
**Advice to Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES



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**Suitable Extinguishing Media** Water fog, foam, carbon dioxide or dry chemical.  
**Hazards from Combustion Products** Non-combustible.  
If involved in a fire, the dehydrated components may emit oxides of carbon and oxides of nitrogen, possibly hydrogen chloride.  
**Special Protective Equipment for fire fighters** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.  
**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 in sealed open top containers for disposal.  
**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.

## 7. HANDLING AND STORAGE

**Conditions for Safe Storage** Store in the closed, original container in a dry, well ventilated area, as cool as possible.  
Do not store for prolonged periods in direct sunlight.  
Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.  
**Other Information** Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** No exposure standard has been established for this product.  
**Engineering Controls** Handle in well ventilated areas, generally natural ventilation is adequate.  
**Hand Protection** PVC, neoprene or natural rubber gloves.  
**Personal Protective Equipment** It is good practice to wear suitable personal protective equipment (PPE).  
**Hygiene Measures** 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** Off-white suspension  
**Odour** Odourless  
**Solubility in Water** Disperses in water.  
**Specific Gravity** 1.04  
**pH Value** 9.5  
**Volatile Component** 66% by volume  
**Flammability** Non combustible material.

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions.  
**Hazardous Reactions** Keep away from strong oxidising agents.

## 11. TOXICOLOGICAL INFORMATION



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<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Inhalation</b>	Not a likely route of exposure when handling the concentrate. However, care should be taken to avoid the inhalation of excessive amounts of spray mist during field spraying, respiratory irritation may occur.
<b>Ingestion</b>	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. However, swallowing large amounts of concentrate may cause nausea and vomiting.
<b>Skin</b>	May irritate the skin. May cause sensitisation by prolonged skin contact.
<b>Eye</b>	May irritate the eyes.
<b>Acute Toxicity - Oral</b>	LD50 (male rats) 2189 mg/kg for hexaconazole LD50 (female rats) 6071 mg/kg for hexaconazole
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >5.9 mg/l for hexaconazole
<b>Eye Irritation</b>	Mild eye irritant.
<b>Skin Irritation</b>	Mild skin irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for hexaconazole for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 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 Safety and Environmental Health, 'ADI List', June 2011).

## 12. ECOLOGICAL INFORMATION

<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, hexaconazole. LC50 (96hr) for rainbow trout is 3.4 mg/l. LC50 (96hr) for mirror carp is 5.94 mg/l. LC50 (96hr) for sheepshead minnow is 5.4 mg/l. LC50 (48hr) for hexaconazole is 2.9 mg/l.
<b>Acute Toxicity - Daphnia</b>	
<b>Acute Toxicity - Algae</b>	EC50 for Algae is 1.7 mg/l.
<b>Acute Toxicity - Other Organisms</b>	The following data is for the active ingredient, hexaconazole. Birds: Not toxic to birds. LD50 for mallard duck is >4000 mg/kg Bees: Not toxic to bees. LD50 >100 µg/bee.

## 13. DISPOSAL CONSIDERATIONS

<b>Product Disposal</b>	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®).
<b>Container Disposal</b>	Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. 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. If on-site container disposal is necessary, triple rinse empty container with water, add rinsate to the spray tank. Puncture top, sides and bottom, crush and bury in an approved landfill or bury with at least 500 mm of soil cover away from pasture and crop areas, water supplies and houses. Empty containers and product should not be burnt.

## 14. TRANSPORT INFORMATION

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
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**Storage and Transport**      Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 15. REGULATORY INFORMATION

**Poisons Schedule**      Not Scheduled

**Packaging & Labelling**      READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**AICS (Australia)**      All of the components in this product are listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS**      Revised 30/11/2011

**Contact**      Normal Hours: Mrs Kathleen Marsh      Phone: +61 3 9282 1000

**Person/Point**      After Hours: Shift Supervisor      Phone: 1800 033 498

**Revisions**      The MSDS was reviewed. Minor changes were made to the information.

**Highlighted**

...End Of MSDS...

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