

Material Safety Data Sheet

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Infosafe No™ 3NUIA Issue Date : June 2010 ISSUED by CRPCARE

Product Name **COLLISS® Fungicide**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name COLLISS® Fungicide
Product Code 1325
Product Type Group 7 11 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 in cucurbits 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 Classified as hazardous
HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s) Classified as hazardous
R40 Limited evidence of a carcinogenic effect.
Safety Phrase(s) S13 Keep away from food, drink and animal feeding stuffs.
S2 Keep out of reach of children.
S36/37 Wear suitable protective clothing and gloves.
S46 If swallowed, seek medical advice immediately and show this container or label.
Other Information Poisons Schedule : Not Scheduled

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion
	Boscalid	188425-85-6	200 g/L
	Kresoxim-methyl	143390-89-0	100 g/L
	Other ingredients (non-hazardous)		> 60%

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.
If symptoms develop or persist, seek medical advice.
Ingestion Rinse mouth and then drink plenty of water.
Skin Wash affected areas thoroughly 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.
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	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
Hazards from Combustion Products	If involved in a fire, the dehydrated components may emit oxides of carbon and nitrogen and possibly hydrogen chloride or organic chlorine compounds.
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Specific Hazards	Considered low risk due to water content, however upon evaporation of water the product is combustible.
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. On-site disposal of concentrate is not acceptable.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Do not apply if heavy rains are imminent. Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.
Conditions for Safe Storage	Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. Do not store below 0 °C.
Other Information	Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standards have been set for this product or the active ingredients.
Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. Re-entry period: Do not enter treated area until spray has dried.
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	White suspension.
Solubility in Water	Disperses in water.
Specific Gravity	1.10
pH Value	6.5 - 8.5
Vapour Pressure	7.2 x 10 ⁻⁴ mPa @ 20°C for boscalid; 2.3 x 10 ⁻³ mPa @ 20°C for kresoxim-methyl.
Octanol/Water Partition Coefficient	Kow Log P is 2.96 for boscalid; 3.4 for kresoxim methyl.
Flammability	Non combustible material.

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10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Hazardous Polymerization Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

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

Inhalation Symptoms of exposure by inhalation are similar to those described for ingestion.

Ingestion Not a likely route of exposure.
The concentrate is of low toxicity if swallowed.
However, swallowing large amounts of concentrate may cause nausea and vomiting.

Skin May irritate the skin.

Eye May irritate the eyes.

Carcinogenicity An incidence of liver tumours was noted in long-term studies with kresoxim-methyl in rodents.
As the mechanism involved is not relevant to humans, and the dose levels were very high, the potential carcinogenic risk to humans is considered negligible.

Acute Toxicity - Oral LD50 (rat) >5,000 mg/kg for a similar formulation

Acute Toxicity - Dermal LD50 (rat) >4,000 mg/kg for a similar formulation

Acute Toxicity - Inhalation LC50 (rat) (4hr) >5.6 mg/l for a similar formulation

Eye Irritation Not an eye irritant.

Skin Irritation Not a skin irritant.

Skin Sensitisation Product is not a skin sensitiser.

Other Information The Australian Acceptable Daily Intake (ADI) for boscalid for a human is 0.06 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 6 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, 'ADI List', December 2008).
ADI for kresoxim-methyl is 0.4 mg/kg/day, NOEL 36 mg/kg/day.

12. ECOLOGICAL INFORMATION

Known Harmful Effects on the Environment This product is toxic to aquatic organisms.

Other Precautions Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
DO NOT apply if there are aquatic and wetland areas including aquacultural ponds, surface stream and rivers within 10 metres downwind from the application area.

Environ. Protection Spray drift should be avoided, read the label for more information.
Marine pollutant.

Acute Toxicity - Fish The following is data for a similar product.
LC50 (96hr) for rainbow trout is 2 mg/l
EC50 (48hr) is 0.52 mg/l.

Acute Toxicity - Daphnia

Acute Toxicity - Algae EC50 (72hr) for Pseudokirchneriella subcapitata 4.48 mg/l.

Acute Toxicity - Other Organisms Bees: Not toxic to bees. LD50 >20 µg/bee.
Low toxicity to birds.

13. DISPOSAL CONSIDERATIONS

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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. 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. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Storage and Transport 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.

For bulk shipments as Class 9, use UN 3082, HazChem code •3Z.

UN Number (Sea Transport) 3082

IMO Class/Packing Group Class 9; Packaging Group III

IMO Marine Pollutant Marine Pollutant

IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Boscalid and Kresoxim-methyl)

15. REGULATORY INFORMATION

Poisons Schedule Not Scheduled

Packaging & Labelling KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Harmful

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 28/06/2010

Contact Person/Point Normal Hours: Mr Volker Maier Phone: (03) 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

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

Other Information ® Registered trademark of BASF.
...End Of MSDS...

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