

SAFETY DATA SHEET



OCTAVE®

Date of Issue: May 2017

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Prochloraz
Recommended use: Fungicide for the control of certain diseases in ornamentals, mushrooms and stonefruit
Supplier: Etec Crop Solutions Ltd
PO Box 51584
Pakuranga 2140
Auckland
Emergency telephone number: 0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: 6.1E, 6.4A, 6.9B, 9.1A, 9.3C
Required identification Details: 6.1E May be harmful if swallowed.
6.4A May cause eye irritation.
6.9B Harmful – presumed to/may cause organ damage from Repeated oral exposure at high doses.
9.1A Toxic to fish with long-lasting effects.
9.3C Harmful to terrestrial vertebrates.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients	CAS No	%w/v
Common name		
Prochloraz, present as the Manganese (II) chloride complex	67747-09-5	46.2%
Kaolin	1332-58-7	35.0%
Other ingredients	(non hazardous)	18.8%

4. FIRST-AID MEASURES

Description of necessary first aid measures: In case of poisoning by any exposure route, call 0880 CHEM CALL 0800 243 622.

Avoid contact with skin and eyes and inhalation of concentration or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing after work.

Effects and symptoms

First-aid measures

Inhalation: Move person to fresh air and keep at rest until recovered.

Ingestion:	Apply artificial respiration if necessary. Wash mouth out with water. Do NOT induce vomiting.
Skin contact:	If skin contact occurs, remove contaminated clothing and wash affected areas thoroughly with soap and water.
Eye contact:	If product gets in eyes, wash it out immediately with water for at least 15 minutes.
Notes to a physician:	No specific antidote. Treat symptomatically.
Workplace facilities:	No specific facilities required. Standard emergency equipment must be available
Required Instructions:	

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	2X
Extinguishing media :	Foam, dry powder, carbon dioxide, sand.
Hazardous thermal (de)composition products:	Stable. Avoid strong oxidising agents. May give off toxic Fumes such as carbon monoxide, nitrogen oxides, sulphur oxides and hydrochloric acid if burnt.
Protection of fire-fighters:	When fighting a major fire, wear an air-supplied respirator. Wear protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Emergency Procedures: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.
Environmental precautions:	Washing must be prevented from entering surface water drains or waterways.
Methods for cleaning up:	Do not discharge into drains/surface water/ground water.
Procedure for spill:	<p>Keep all bystanders away. Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length and PVC gloves. Contaminated material must be disposed of in accordance With all local authority requirements.</p> <ul style="list-style-type: none"> ▪ For quantities up to 50L of product, bury in a secure approved landfill site. ▪ For quantities greater than 50L seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established. <p>Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.</p>
Procedure for disposal:	

- a) Triple rinse or, preferably, pressure rinse containers with water. Add rinseate to the spray tank. DO NOT dispose of undiluted chemicals on site.
- b) Submit clean empty container for recycling through Agrecovery. If this is not possible, burn if permitted and circumstances, especially wind direction, allow otherwise bury in landfill.
- c) Product or unused spray mix should be disposed off according to label instructions.

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes and inhalation of concentrate or spray mist. When using, do not eat or drink or smoke. Wash face and hands before eating, drinking and smoking.
Storage:	Store in a cool, dry, well ventilated place and protect from sunlight. Avoid temperatures below -10°C or above 40°C.
Packaging materials:	Store in original container. Tightly closed, away from foodstuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure standards:	Kaolin. TWA: 10mg/m ³ (as inspirable dust)
Ventilation specification:	Use in well ventilated areas.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system:	Where insufficient ventilation, use suitable respiratory protection.
Skin and body:	Wear suitable protective gloves (eg. Polyvinyl chloride – PVC). After contamination with product, change the gloves immediately.
Eyes:	Chemical goggles/face protection.
General hygiene:	Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hands before breaks and after work. Change contaminate protective clothing. Keep away from food, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Colour:	Off-white
Odour:	Faint odour
pH:	7.48 (1% in water)
Vapour Pressure:	NA
Bulk Density:	0.27 g/ml (loose), 0.35 g/ml (packed)
Boiling Point:	Not known

Freezing/melting point:	Not known
Solubility:	dispersible
Specific gravity or density:	Not known
Auto – ignition Temperature:	
Octanol/water partition coefficient:	Log P _{ow} = 4.38
Explosion properties:	Explosion hazard: 70%
Oxidation properties:	Not an oxidiser

10. STABILITY AND REACTIVITY

Stability:	Stable under standard conditions
Conditions to avoid:	Not applicable
Materials to avoid:	Avoid strong oxidising agents May give off toxic fumes such as carbon monoxide, nitrogen oxides, sulphur oxides and hydrochloric acid if burnt.
Hazardous decomposition Products:	
Hazardous polymerization:	<i>(state any substance likely to polymerize and cause dangerous conditions)</i>
Specific Data:	<i>(state any other information which might describe a likely hazard from the product including mixtures)</i>
Hazardous reactions :	No hazardous reactions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	LD ₅₀ : rat > 2700mg/kg
Acute toxicity - Dermal :	LD ₅₀ : rat > 2000mg/kg
Acute toxicity – Inhalation:	LC ₅₀ : rat > 2.66mg/L (air)
Skin irritation :	Non-irritant
Eye irritation:	Slight and reversible irritation.
Sensitising:	Not sensitizing (guinea pig)

12. ECOLOGICAL INFORMATION

Ecotoxicity	
Fish	LC ₅₀ : 1.5 mg/L Rainbow trout (<i>Oncorhynchus mykiss</i>) (96h) LC ₅₀ : 2.2 mg/L Bluegill sunfish (96h)
Daphnia magna	EC ₅₀ : 4.3 mg/L (<i>Daphnia magna</i>) (48h)
Algae	IC ₅₀ : 0.1 mg/L Algae (<i>Selenastrum capricornutum</i>)
Birds	Acute oral LD50: >1954 mg/kg mallard duck, quail 662 mg/kg.

13. DISPOSAL CONSIDERATIONS

Methods of 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 or the empty container and add rinseate to the spray tank. Submit clean empty container for recycling through Agrecovery. If this is not possible, burn if permitted and circumstances, especially wind direction, allow. Otherwise bury in landfill. Do not use the container for any other purpose.

14. TRANSPORT INFORMATION

International transport regulations

International transport regulations:	Environmentally Hazardous Substance. Haxchem code 2X
UN number:	UN3077
Land - Road/Railway	UN3077 Environmentally Hazardous Substance, Solid. N.O.S, (prochloraz) Class 9, Packing Group III, Hazchem 2X
Proper shipping name :	Environmentally Hazardous Substance, Solid. N.O.S, (prochloraz
Class	Class 9
Packing Group	Packing Group III
Hazchem	2X
Marine Pollutant	Marine Pollutant for Marine Transport only.

15. REGULATORY INFORMATION

ACVM Registered Number:	P3055
HSNO Approval Code:	HSR000579
	Approved Handler required at time of use
	HSNO Controls: See www.ermanz.govt.nz
	ACVM Controls: www.foodsafety.govt.nz

16. OTHER INFORMATION

Additional information:

Original Issue Date: April 2012

Revision Date: 23/05/2017

Replaces: ES307

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