

Section 1 - Identification of the Material and Supplier

FMC New Zealand Limited
6 Clayton Street
Newmarket, Auckland 1023

24 Hour Medical Emergency: 0800 111 174
Transport Emergency: 0800 387 668
Technical Query & Customer Service: 0800 658 080
(business hours)
www.fmccrop.nz

Chemical nature: An Imidazole Fungicide
Trade Name: Octave®
Product Use: Fungicide for the control of certain diseases in Ornamentals, Mushrooms and Stone fruit
Creation Date: April 2012
This version issued: November, 2018 and is valid for 5 years from this date.
Poisons Information Centre: Phone 0800 764766 from anywhere in New Zealand

Section 2 - Hazards Identification



GHS Signal word: WARNING, ECOTOXIC
Hazard Classification 6.1E, 6.4A, 6.9B, 9.1A, 9.3C

Hazard Statements

H302: Harmful if swallowed.
H317: May cause an allergic skin reaction.
H320: Causes eye irritation.
H333: May be harmful if inhaled.
H401: Toxic to aquatic life.

Precautionary Statements – Prevention

P102: Keep out of reach of children.
P103: Read label before use.
P261: Avoid breathing dusts.
P262: **DO NOT** get in eyes, on skin, or on clothing.
P264: Wash contacted areas thoroughly after handling.
P270: **DO NOT** eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing and eye or face protection.
P235+P410: Keep cool. Protect from sunlight.

Precautionary Statements – Response

P308: If exposed or concerned: seek medical attention.
P340: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301+P330+P331: IF SWALLOWED: Rinse mouth. **DO NOT** induce vomiting.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313: If skin irritation or rash occurs: Get medical advice.
P391: Collect spillage.
P370+P378: In case of fire, use carbon dioxide, dry chemical, foam. Water fog or fine spray is the preferred medium for large fires.
P370+P380: In case of fire: Evacuate area.

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Precautionary Statements – Storage

P402: Store in a dry place.
P404: Store in a closed container.
P410+P403: Protect from sunlight. Store in a well-ventilated place.

Precautionary Statements – Disposal

P501: Dispose of contents and containers as specified on the registered label.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	%
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

Section 4 - First Aid Measures

Inhalation Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Skin Contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

Eye Contact Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Ingestion Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Protection of first-aiders Use personal protective equipment. See Section 8 for more detail.

Indication of immediate medical attention and special treatment needed, if necessary Treatment is symptomatic and supportive.

Section 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.

Flash point: No data.

Upper Flammability Limit: No data.

Lower Flammability Limit: No data.

Autoignition temperature: No data.

Section 6 - Accidental Release Measures

Personal Precautions Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.

Other For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

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For emergency responders Use personal protective equipment as required. Use personal protection recommended in Section 8.

Environmental Precautions Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.

Methods for Containment Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

Section 7 - Handling and Storage

Handling Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

Storage Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

Materials to avoid Strong acids strong bases Strong oxidizing agents.

Section 8 - Exposure Controls and Personal Protection

Exposure Limits

Engineering measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal protective equipment

Respiratory Protection The product does not automatically present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment with a universal filter type including particle filter.

Hand Protection Wear chemical protective gloves made of materials such as nitrile or neoprene.

Eye/Face Protection Maintain eye wash fountain and quick-drench facilities in work area.

Skin and Body Protection Wear protective gloves/ protective clothing.

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Remove and wash contaminated clothing before re-use. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Launder work clothing separately from regular household laundry.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Off-white, powder.
Odour:	Faint odour.
Boiling Point:	Not known.
Freezing/Melting Point:	Not known.
Vapour Pressure:	N/A
Specific Gravity or Density:	Not known.
Bulk Density:	0.27 g/ml (loose), 0.35 g/ml (packed)
Water Solubility:	Dispersible.
pH:	7.48 (1% in water)
Octanol/water partition coefficient:	Log POW = 4.38
Explosion properties:	Explosion hazard: 70%
Oxidation properties:	Not an Oxidiser

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Section 10 - Stability and Reactivity

Reactivity None under normal use conditions

Stability Stable under normal conditions

Hazardous reactions Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid Heat, flames and sparks.

Incompatible products Strong oxidizing agents.

Hazardous Decomposition Products Carbon oxides (COx), Nitrogen oxides (NOx), Hydrogen chloride.

Section 11 - Toxicological Information

Acute toxicity

Numerical measures of toxicity - Product Information

LD₅₀ Oral 1500- 4600 mg/kg (rat)

LD₅₀ Dermal > 2000 mg/kg (rat)

LC₅₀ Inhalation 2.66 mg/L 4 hr (rat)

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Slightly irritating to eyes.

Sensitisation No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Mutagenicity Prochloraz: Not genotoxic in animal studies.

Carcinogenicity Prochloraz: Animal studies showed an increased incidence of hepatocellular tumors in mice but is not considered relevant to humans.

Reproductive toxicity Prochloraz: Reproductive performance was impaired (extended gestation length; dystocia).

Developmental toxicity Prochloraz: Not teratogenic in animal studies.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

Chronic toxicity Chronic exposure to silica dust may increase the risk of developing pneumoconiosis or silicosis, chronic diseases affecting the lungs, characterized by labored breathing, cough, reduction of work capacity, reduction of lung capacity, heart enlargement and failure.

Target organ effects Liver; Testes.

Aspiration hazard No information available.

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Section 12 - Ecological Information

The environmental impact of this product has not been fully investigated.

Very toxic to aquatic life with long lasting effects.

Prochloraz Manganese Chloride Complex (75747-77-2)

Active Ingredient(s)	Duration	Species	Value	Units
Prochloraz Manganese Chloride	72 h EC50	Algae	0.1	mg/L
	96 h LC50	Fish	1.5	mg/L
	48 h EC50	Crustacea	4.3	mg/L
	21 d NOEC	Fish	0.049	mg/L
	21 d NOEC	Crustacea	0.022	mg/L
	96 h NOEC	Algae	0.05	mg/L

Persistence and degradability Prochloraz: Non-persistent, Does not readily hydrolyse, Not readily biodegradable.

Bioaccumulation Prochloraz: The substance has a low potential to bioaccumulate in the environment.

Mobility Prochloraz: Low mobility; not expected to reach groundwater.

Other Adverse Effects No information available.

Section 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: Do not re-use empty containers. Burn in an appropriate incinerator, if circumstances permit. Otherwise crush or puncture and bury in an approved landfill. Dispose of this product only by using according to this label.

Section 14 - Transport Information

NZS 5433*

Octave® 1 kg and 5 x 1 kg can be shipped under Limited Quantity provisions in NZS 5433 as a non-dangerous good. Otherwise, the following classification may apply.

UN number	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains prochloraz)
Class	9
Packing group	III
Matters needing attention for transportation:	Octave 1 kg can be shipped under Limited Quantity provisions in NZS 5433 as a non-dangerous good.

IMDG*

Octave® 1 kg and 5 x 1 kg can be shipped as a non-dangerous good as provided in section 2.10.2.7 of IMDG code. Otherwise, the following classification may apply.

UN number	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains prochloraz)
Class	9
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IATA*

Octave® 1 kg and 5 x 1 kg can be shipped as a non-dangerous good as provided in IATA special provision A197. Otherwise, the following classification may apply.

UN number	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains prochloraz)
Class	9
Packing group	III

* Matters needing attention for transportation:

Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code which accepts IMDG and IATA classification and/or Limited quantity volumes.

Section 15 - Regulatory Information

ACVM Registered Number: P3055
HSNO Approval Code: HSR000579

ADVICE TO PRODUCT USERS REGARDING HSNO CONTROLS: Users of this product should make reference to the New Zealand Hazardous Substances and New Organisms Act and Regulations for relevant risk management controls. Additional local requirements may be applicable in accordance with planning controls under the Resource Management Act. Refer to Environment Protection Authority publication; User Guide to the HSNO Controls Regulations. <http://www.epa.govt.nz>

Section 16 - Other Information

IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE

POISONS INFORMATION CENTRE: 0800 764 766

New Zealand Emergency Telephone

24 hr Transport Emergency: 0800 387 668

24 hr Emergency Medical Information: 0800 111 174

This SDS contains only safety-related information. For other data see product literature.

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

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