

## 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](http://www.fmccrop.nz)

**Chemical nature:** Prochloraz is an azole derivative. Presented here as the manganese chloride complex.

**Trade Name:** Sportak® EW

**Product Use:** Fungicide for disease control in avocados, cereals and pine.

**Creation Date:** May 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



### Hazard Classification:

**6.1E, 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.

### GHS Signal word: **WARNING**

Acute Toxicity Oral Category 4

Skin Corrosion /Irritation Category 2

Serious eye damage/eye irritation Category 2B

Specific Target Organ Toxicity - Single Exposure Category 3

Hazardous to aquatic environment Short term/Chronic Category 1

### HAZARD STATEMENT:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H320: Causes eye irritation.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

### PREVENTION

P102: Keep out of reach of children.

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.

P281: Use personal protective equipment as required.

### RESPONSE

P362: Take off contaminated clothing and wash before reuse.

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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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.

P332+P313: If skin irritation occurs: Get medical advice.

P337+P313: If eye irritation persists: Get medical advice.

P391: Collect spillage.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used.

## STORAGE

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

## DISPOSAL

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

## Emergency Overview

**Physical Description & Colour:** Liquid, White to off-white

**Odour:** Characteristic

**Major Health Hazards:** Prochloraz has low acute toxicity. The LD<sub>50</sub> in rats treated orally was 1600–2400 mg/kg bw, and the main toxic effects were reversible central nervous system depression and gastrointestinal irritation. WHO (1999) has classified Prochloraz as 'slightly hazardous'. The LD<sub>50</sub> after dermal application was > 2100 mg/kg bw in rats and > 3000 mg/kg bw in rabbits, and the LC<sub>50</sub> in rats exposed by inhalation for 4 h was > 2.2 mg/l of air, the highest achievable concentration. The compound was not irritating to the skin of rabbits after a 4 hour exposure, was not irritating to the eyes of rabbits and did not sensitize the guinea-pig skin in a Magnusson and Kligman maximization test. This product is irritating to eyes and skin, harmful if swallowed.

## Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	%
Prochloraz	67747-09-5	39.8
Solvent naptha (petroleum) heavy aromatic	64742-94-5	>5.0 - <25.0
2-sec-Butyphenol	89-72-5	>5.0 - <25.0
1,2 Propanediol	57-55-6	>5.0 - <25.0
Fatty alcohol polyglycolether	-	>1.0 - <5.0

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

## Section 4 - First Aid Measures

**General Information:** In case of poisoning by any exposure route, call 0800 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.

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** Remove victim from contaminated atmosphere without endangering yourself. If there is a breathing problem, give oxygen.

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**Skin Contact:** If skin contact occurs, remove contaminated clothing and wash affected areas thoroughly with soap and water. If symptoms persist, call a doctor.

**Eye Contact:** If product gets in eyes, wash it out immediately with water for at least 15 minutes.

**Ingestion:** Wash mouth out with water. Do NOT induce vomiting.

**Notes to physician:** Treat symptomatically.

**Workplace facilities:** No specific facilities required. Standard emergency equipment must be available.

## Section 5 - Fire Fighting Measures

**HAZCHEM Code:** 2X

**Fire and Explosion Hazards:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

**Extinguishing Media:** Water spray, foam. Carbon dioxide, dry powder or sand.

**Hazardous thermal (de)composition products:** May give off toxic fumes such as carbon monoxide, nitrogen oxides, and hydrochloric acid if burnt. No fire point or flashpoint below the boiling point (70°C)

**Protection of fire-fighters:** When fighting a major fire, wear an air-supplied respirator. Wear protective equipment.

**Flash point:** >95°C

## Section 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. **Procedure for spill:** Keep all bystanders away.

Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves. Contaminated material must be disposed of in accordance

With all local authority requirements.

- 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.

Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

**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 of according to label instructions.

## Section 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.

**Packaging materials:** Store in original container, tightly closed, away from Foodstuffs, drink and animal feedstuffs.

## Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

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SWA Exposure Limits	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
o-sec-Butylphenol	31	not set

The ADI for Prochloraz is set at 0.01mg/kg/day. The corresponding NOEL is set at 1mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation specification:** Use in well ventilated areas.

#### **Personal Protective Equipment**

##### **Detail specifications for equipment:**

**Respiratory system:** Where insufficient ventilation, use suitable respiratory protection

**Eye Protection:** Chemical goggles/face protection.

**Skin and body Protection:** Wear suitable protective gloves (eg. Polyvinyl chloride – PVC). After contamination with product, change the gloves immediately.

**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.

### **Section 9 - Physical and Chemical Properties:**

<b>Physical Description &amp; colour:</b>	Liquid, White to off-white
<b>Odour:</b>	Characteristic
<b>Boiling Point:</b>	Not available.
<b>Freezing/Melting Point:</b>	Not available.
<b>Vapour Pressure:</b>	0.3 hPa at 20°C
<b>Bulk Density:</b>	1.132 g/cm <sup>3</sup> at 20°C.
<b>Specific Gravity or Density:</b>	Vapour density 1.0
<b>Water Solubility:</b>	Not miscible
<b>pH:</b>	Not available.
<b>Explosion properties:</b>	Not available.
<b>Oxidation properties:</b>	Not an oxidant.
<b>Octanol/water partition coeff:</b>	Log POW = 4.12

### **Section 10 - Stability and Reactivity**

**Stability:** Stable under standard conditions

**Conditions to Avoid:** Extremes of temperature and direct sunlight.

**Materials to avoid:** None known.

**Hazardous decomposition Products:**

**Hazardous polymerization:**

**Specific Data:**

**Hazardous reactions:** No hazardous reactions when stored and handled according to the label.

### **Section 11 - Toxicological Information**

<b>Acute toxicity – Oral:</b>	LD50: rat > 2000mg/kg
<b>Acute toxicity - Dermal:</b>	LD50: rat > 4000mg/kg
<b>Acute toxicity – Inhalation:</b>	
<b>Skin irritation:</b>	Slight irritant effect.
<b>Eye irritation:</b>	
<b>Sensitization:</b>	Non sensitizing (guinea pig)

### **Potential Health Effects**

**Inhalation:**

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**Short Term Exposure:** Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term inhalation.

**Skin Contact:**

**Short Term Exposure:** This product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but if treated promptly, all should disappear once exposure has ceased.

**Long Term Exposure:** No data for health effects associated with long term skin exposure.

**Eye Contact:**

**Short Term Exposure:** This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

**Long Term Exposure:** No data for health effects associated with long term eye exposure.

**Ingestion:**

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

**Long Term Exposure:** No data for health effects associated with long term ingestion.

**Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** No significant ingredient is classified as carcinogenic by IARC.

## Section 12 - Ecological Information

**Ecotoxicity**

<b>Fish:</b>	LC50: 4.41 mg/L (96h); Rainbow trout ( <i>Oncorhynchus mykiss</i> )
<b>Daphnia magna:</b>	LC50: 2.2 mg/L (96h); Bluegill sunfish EC50: 7.21 mg/L (48h); Water flea ( <i>Daphnia magna</i> )
<b>Algae:</b>	IC50: 0.026 mg/L (72h); Algae ( <i>Selenastrum capricornutum</i> )
<b>Birds:</b>	Acute oral LD50: >1.954 mg/kg mallard duck, 662 mg/kg quail.

## 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:** 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.

## Section 14 - Transport Information

**NZS 5433\***

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Prochloraz)
Class	9
Packing group	III
Matters needing attention for transportation:	Magister®1 and 5 L can be shipped under Limited Quantity provisions in NZS 5433 as a non-dangerous good.

**IMDG\***

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Prochloraz)

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Class 9  
Packing group III

**IATA\***

UN number 3082  
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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:** P7750

**HSNO Approval Code:** HSR007837

Approved Handler required at time of use HSNO Controls: See [www.ermanz.govt.nz](http://www.ermanz.govt.nz) ACVM Controls: [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) Approved Handler required at time of use.

**Section 16 - Other Information**

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

**Acronyms:****Acronyms:**

**CAS number** Chemical Abstracts Service Registry Number  
**Hazchem Code** Emergency action code of numbers and letters that provide information to emergency services especially firefighters  
**IARC** International Agency for Research on Cancer  
**NOS** Not otherwise specified  
**NTP** National Toxicology Program (USA)  
**R-Phrase** Risk Phrase  
**SUSMP** Standard for the Uniform Scheduling of Medicines & Poisons  
**UN Number** United Nations Number

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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