

MATERIAL SAFETY DATA SHEET – SureFire CHLORTAN 720



PCT International Pty Ltd

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CHLORTAN 720

FUNGICIDE

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE PRODUCT AND THE MANUFACTURER

Product Name: SureFire CHLORTAN 720 Fungicide
Product Code: none
Product Use: For control of fungus diseases on fruit, tobacco & vegetables as specified in the Directions for Use table.
Poison Schedule: S5
Supplier: PCT International Pty Ltd
ABN: 44 101 170 923
Street Address: Unit 1 / 74 Murdoch Circuit, ACACIA RIDGE QLD 4110
Telephone: + 61 7 3711 7022
Facsimile: + 61 7 3711 7055
Website: www.pct.au.com
Emergency telephone No: 1800 630 877

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.

MSDS Creation Date: 1st August, 2012

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Formulation Type: Liquid suspension concentrate

Ingredients	CAS NO.	Concentration
Chlorothalonil	1897-45-6	72%
Other ingredients determined not to be hazardous	-	to 100%

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3. HAZARDS IDENTIFICATION

Risk Phrases:	R20/22	Harmful by inhalation and if swallowed.
	R37	Irritating to respiratory system.
	R40	Limited evidence of a carcinogenic effect.
	R43	May cause sensitisation by skin contact.
Safety Phrases:		
	S2	Keep out of the reach of children.
	S13	Keep away from food, drink and animal feedstuffs.
	S20/21	When using, do not drink, eat or smoke.
	S36/37	Wear suitable protective clothing and gloves

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Potential Health Effects

Eyes:	Moderately irritating to the eyes
Skin:	May cause slight irritation, dermal sensitization or skin tingling.
Ingestion:	Harmful if swallowed.
Inhalation:	This product may be harmful if inhaled. Avoid breathing vapor, spray or fumes.
Primary Routes of Entry:	Eyes, Skin, Inhalation, Ingestion
Target Organs:	Eyes, Skin, Respiratory Tract, Digestive System
Carcinogenicity:	The EPA has classified Chlorothalonil as a class Group B2 "probable human carcinogen".

4. FIRST AID MEASURES

Eyes:	Flush eye(s) for 15 minutes or more- If irritation persists, consult a doctor (preferably an eye specialist) and show this MSDS.
Skin:	Remove any contaminated clothing. Wash affected areas immediately and thoroughly with soap and water.
Ingestion:	Rinse mouth and then drink plenty of water. Do not induce vomiting. If swallowed seek medical advice and show this MSDS.
Inhalation:	Remove affected person from site of exposure to fresh air until recovered. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Seek medical attention if symptoms persist.
First Aid Facilities:	If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).
General Advice:	Remove soiled or soaked clothing immediately.
Information for doctor:	There is no known specific antidote for Chlorothalonil available. Treat patient symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point:	Not possible with this formulation.
Autoignition Temperature:	N/A.
Upper Explosion Limits:	Not applicable.
Lower Explosion Limits:	Not applicable.
Suitable Extinguishing Media:	Soft stream water, foam, CO ₂ or dry chemical. Contain all runoff,
By-products in case of Fire:	In the event of a fire the following can be released: - black smoke containing hazardous organic byproducts.
Further Information:	Keep unnecessary persons away from the area. If safe to do so, remove intact containers, otherwise use water spray to cool them. Collect contaminated firefighting water separately, by bunding the

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area with sand or earth. Fire control water must not be discharged into drains.

Special Protective

Equipment for Firefighters: As in any fire, water, self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up/ Taking Up:

Spills: Dealing with spills has the potential to increase the risk of personal exposure- during such operations, ensure that protective clothing is worn as detailed below. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills should be contained and absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and once absorption is complete, this material then be placed in sealable, labeled, drums for safe disposal in an approved landfill, and in accordance with the requirements of local or State Waste Management Authorities. Alternatively, bury under at least 500^{mm} of soil in an area away from crops, pastures, homes or water sources. To decontaminate spill area, tools and equipment, wash with a suitable solution, e.g. organic solvent, detergent, bleach or caustic, and add this material to the drums of waste already collected. Label all contents. Do not burn empty containers or product.

7. HANDLING AND STORAGE

Advice on safe

Handling: Keep out of reach of children. Avoid contact with eyes and skin. Wash hands after use, and before smoking or eating / drinking. Wash protective gear and clothing after each day's use. Do not inhale spray mist.

Advice on protection against fire and explosion:

Not flammable- no special measures required.

Storage information: Store in tightly sealed original containers in a dry, cool, well ventilated, secure area away from sources of heat, ignition or direct sunlight. Store away from fertilizers, seed, feed and food. Keep out of reach of children, unauthorized persons and animals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:		
Component	Exposure limit	Value type
Propylene glycol	0.474 mg/L	TWA
	150 ppm	TWA
Chlorothalinol	0.1mg/L	TWA

General protective Measures:

Avoid contact with eyes and skin
Do not inhale mists.

Hygiene Measures:

No smoking, eating or drinking allowed when using this product.
Wash hands before breaks and at end of work shift.
Protective ointment is recommended.

Respiratory Protection:

In case of formation of mists or vapours, an organic vapour cartridge respirator should be used.

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Hand Protection: Elbow length PVC gloves should be worn when using this product.
Eye Protection: Safety goggles and/or face shield is recommended when using this product.
Protective clothing: Cotton overalls buttoned to the neck and wrist, and a washable hat, are required when using this product.
Engineering Controls: Use in a well ventilated area only. Good general (mechanical) ventilation should be sufficient to control airborne mist levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light grey liquid
Odour: Characteristic mildly pungent odour.
Solubility in Water: Emulsifies with water.
Specific Gravity (H₂O=1): approx. 1.345 @ 20°C
pH Value: 6.5 – 9.5
Vapour Pressure: not known
Melting Temperature: < -5°C
Boiling temperature: > 100°C
Viscosity, dynamic: not measured

10. STABILITY AND REACTIVITY

Conditions to avoid: None with proper storage and handling, other than extreme heat.
Thermal Decomposition: Not measured, although if involved in a fire, the formation of toxic smoke can be expected.
Hazardous reactions: No hazardous reactions with proper storage and handling
Hazardous Polymerization: Unlikely to occur.
Stability: Stable under normal conditions of storage and use.
Hazardous decomposition products: None with proper storage and handling.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral: LD₅₀ (rat) 2000 mg/kg approx.
Acute Toxicity - Inhalation: LC₅₀ (rat) >0.86mg/L exposure time 4h method
Acute Toxicity - Dermal: LD₅₀ (rabbit) 2000mg/kg
Eye Irritation: (Species - rabbit) slight irritant
Skin Irritation: (Species - rabbit) non - irritant
Skin Sensitisation: (Species - guinea pig) sensitiser
Note: harmful by inhalation and in contact with skin
Irritant to skin
Risk of serious damage to eyes
The toxicological data refer to the undiluted 100% product.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:
Acute Toxicity – Fish: LC₅₀ for rainbow trout is 61 µg/L. (96h)
Acute Toxicity - Daphniae: EC₅₀ for daphnia magna is 180 µg/L. (48h)
Acute Toxicity – Bees: LD₅₀ for bees is >200 µg/bee (oral & contact)
Further ecological information:

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Ecological notes: In aerobic soils, the half-life for chlorothalonil is from one to three months. Increased soil moisture or temperature increases chlorothalonil degradation. It is not degraded by sunlight on the soil surface. Chlorothalonil has high binding and low mobility in silty loam and silty clay loam soils, and has low binding and moderate mobility in sand. In studies conducted in water over ten weeks time, chlorothalonil, at low levels, was generally stable.

13. DISPOSAL CONSIDERATIONS

ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Product Disposal: In accordance with local authority regulations, take to special waste incineration plant.

Container Disposal: Dispose of empty, used containers by triple rinsing, or preferably pressure rinsing. Add the rinsate to the spray tank or dispose of the rinsate in a disposal pit away from desirable plants and their roots and from watercourses. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return cleaned containers to a recycler or designated collection point. If not recycling, break, crush or puncture empty containers and bury in a local authority landfill. If no landfill available, bury the containers at least 500^{mm} deep 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

Road & Rail Transport: SureFire CHLORTAN 720 is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Marine and Air Transport: Product is a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:-

UN No. : 3082
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Contains Chlorothalonil).
Dangerous Goods Class : 9
Subsidiary Risk : None Allocated
Packing Group : III



15. REGULATORY INFORMATION

APVMA Approval No: 66860/xx/54545

Poisons Schedule: S5

Packaging &

Labeling: READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category

AICS (Australia): Listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point: Mr David Pearson Phone: (07) 3711 7022

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

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