

Safety Data Sheet according to WHS Regulations

Printing date 08.12.2022 Revision: 02.12.2021

1 Identification

Product Name: TITAN CHLOROTHALONIL 720 FUNGICIDE

Other Means of Identification: Mixture APVMA Approval Number: 62668

Recommended Use of the Chemical and Restriction on Use: Agricultural fungicide

Details of Manufacturer or Importer:

Titan Ag Pty Ltd Princes Street Marina Suite 15/16 Princes Street Newport NSW 2106

Phone Number: 02 9999 6655

Emergency telephone number: 02 9999 6655

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Skull and crossbones

Acute Toxicity (Inhalation) 2 H330 Fatal if inhaled.



Carcinogenicity 2 H351 Suspected of causing cancer.



Corrosion

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



Environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Skin Sensitisation 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

Signal Word Danger

Hazard Statements

H330 Fatal if inhaled.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

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H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P320 Specific treatment is urgent (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 1897-45-6 | Chlorothalonil | 50-70%

Acute Toxicity (Inhalation) 2, H330; & Carcinogenicity 2, H351; Serious Eye Damage/Irritation 1, H318; Aquatic Chronic 1, H410 (M=10); Skin

Sensitisation 1, H317; STOT SE 3, H335

4 First Aid Measures

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with copious amounts of water for at least 15 minutes. Seek immediate medical attention.

Ingestion:

vision.

If swallowed, do not induce vomiting. Rinse mouth and give plenty of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Fatal if inhaled. May cause respiratory irritation, increased secretion of mucous and headache. Skin Contact: May cause skin irritation, itchiness and reddening of contacted skin. Skin sensitiser. Eye Contact: May cause severe eye irritation, stinging, reddening, watering, swelling of eyelids and blurred

Ingestion: May cause irritation of the mouth with extreme pain and reddening of skin.

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5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and nitrogen, hydrogen chloride and phosgene. Product is not flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

HAZCHEM Code: 2X

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from prolonged periods in direct sunlight.

8 Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:

Use approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

PVC, PVA, nitrile, neoprene, rubber or vinyl gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of

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the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form: Liquid

Colour: White, opaque

Odour:

Odour Threshold:

PH-Value:

No information available

Initial Boiling Point/Boiling Range: ~100 °C Flash Point: Not applicable

Flammability: Product is not flammable

Auto-ignition Temperature: Not applicable

Decomposition Temperature:No information available

Explosion Limits:

Lower:Not applicableUpper:Not applicable

Vapour Pressure at 25 °C:2.37 kPa (chlorothalonil) **Density:**No information available

Relative Density: 1.354

Vapour Density:

Evaporation Rate:

Solubility in Water:

Partition Coefficient (n-octanol/water) at 25 °C: 2.92 log POW

No information available
Disperses in water.

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Direct sunlight.

Incompatible Materials: No information available

Hazardous Decomposition Products: Carbon dioxide, oxides of nitrogen, hydrogen chloride and phosgene.

11 Toxicological Information

Toxicity:

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LD50	I/LC50 Values:				
CAS:	1897-	-45-6 Chlorothalonil			
Oral	LD50	>6,000 mg/kg (mice)			
		>10,000 mg/kg (rat)			
	LD50	>10,000 mg/kg (rabbit)			

Acute Health Effects

Inhalation: Fatal if inhaled. May cause respiratory irritation, increased secretion of mucous and headache.

Skin: May cause skin irritation, itchiness and reddening of contacted skin. Skin sensitiser.

Eye: Causes severe eye irritation, stinging, reddening, watering, swelling of eyelids and blurred vision.

Ingestion:

May cause irritation of the mouth with extreme pain and reddening of skin. Very high doses may cause a loss of muscle coordination, rapid breathing, nose bleeding, vomiting, hyperactivity, and death. Dermatitis, vaginal bleeding, bright yellow and/or bloody urine, and kidney tumours may also occur.

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Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Suspected of causing cancer.

Chlorothalonil is classified by IARC as Group 2B - Possibly carcinogenic to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause respiratory irritation.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

Prolonged or repeated skin contact may cause skin sensitisation. Some individuals may become sensitive to contact with chlorothalonil.

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for chlorothalonil for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 1.5 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: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2022).

12 Ecological Information

Ecotoxicity: Chlorothalonil is not toxic to birds or bees.

Aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

CAS: 1897-45-6 Chlorothalonil	
LC50/96 h	0.059 mg/l (bluegill)
	0.043 mg/l (rainbow trout)
LC50/48 h	0.07 mg/l (daphnia magna)
EC50/120hr	0.21 mg/l (selenastrum capricornutum)

Persistence and Degradability:

Average field half life of chlorothalonil is 7-30 days. In water, the half life of chlorothalonil is 4.5 hours to 9 days. Chlorothalonil has high persistence in water/soil.

Bioaccumulative Potential: The bioaccumulation potential of chlorothalonil is low.

Mobility in Soil: The mobility of chlorothalonil is medium.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

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14 Transport Information

UN Number

IMDG, IATA

ADG, IMDG, IATA UN2996

Proper Shipping Name

ADG ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC

(Chlorothalonil), ENVIRONMENTALLY HAZARDOUS

ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC

(Chlorothalonil)

Dangerous Goods Class

ADG Class: 6.1

Packing Group:

ADG, IMDG, IATA

EMS Number: F-A,S-A

Hazchem Code: 2X

Special Provisions: 61, 274

Excepted quantities (EQ): E4

Limited Quantities: 100 ml

Packagings & IBCs - Packing Instruction: P001, IBC02

Portable Tanks & Bulk Containers - Instructions: T11

Portable Tanks & Bulk Containers - Special

Provisions: TP2, TP13, TP27

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

Australian Pesticides and Veterinary Medicines Authority:

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA approval number 62668.

16 Other Information

Date of Preparation or Last Revision: 02.12.2021

Prepared by:

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Inhalation) 2: Acute toxicity - Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

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Carcinogenicity 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020".

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