

Safety Data Sheet

according to WHS Regulations

Printing date 29.10.2020

Revision: 29.10.2020

1 Identification

Product Name: TITAN CHLORTHAL 900 WG PRE-EMERGENCE HERBICIDE

Recommended Use of the Chemical and Restriction on Use:

Recommended for use as a method of pre-emergence weed control in certain agricultural processes. Refer to the information table for specific directions of use.

Details of Manufacturer or Importer:

Titan Ag Pty Ltd
 15/16 Princes Street,
 Newport NSW 2106
 AUSTRALIA

Phone Number: +61 2 9999 6655

Emergency telephone number: +61 2 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.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Skin Corrosion/Irritation 2 H315 Causes skin irritation.

Serious Eye Damage/Irritation 2 H319 Causes serious eye irritation.

Signal Word Warning

Hazard Statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary Statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

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

P321 Specific treatment (see on this label).

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/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 1861-32-1	Chlorthal-dimethyl	90%
	⚠ Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2, H319	
CAS: 14807-96-6	Talc (Mg3H2(SiO3)4)	0-10%

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4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air until recovered. Seek medical attention if breathing problems develop or persist.

Skin Contact:

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

Eye Contact:

In case of eye contact, rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion:

If swallowed, rinse mouth and drink plenty of water. If vomiting occurs, provide more water to assist in dilution. Seek medical attention if symptoms occur.

Information for Doctor: Treat symptomatically.

Symptoms Caused by Exposure:

Inhalation: Inhalation of dust may result in respiratory irritation.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: No specific symptoms. Possible generalised symptoms include nausea and vomiting.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products includes hydrogen chloride, phosgene, and other pyrolysis products. This product is not flammable, but may decompose in a fire or at extreme heats.

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 dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

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 sweep or vacuum granules into a pile and shovel into sealed containers for subsequent disposal. Avoid generating dust. Provide adequate ventilation.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. 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. Always read the label and any attached leaflet before use.

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Conditions for Safe Storage:

Store in a cool, dry and well-ventilated area. Protect from direct sunlight. Keep in original container tightly closed when not in use. Keep away from strong oxidising agents and acids.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 14807-96-6 Talc (Mg₃H₂(SiO₃)₄)**WES | TWA: 2.5 mg/m³**Engineering Controls:** Ensure adequate ventilation of the working area.**Respiratory Protection:**

Where an inhalation risk exists, wear an approved dust/particulate filter respirator. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Wear elbow-length PVC gloves and cotton overall buttoned to the neck and wrist. See Australian Standards AS/NZS 2161 for more information.

Eye and Face Protection:

Wear chemical goggles for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Granules
Colour:	Off white to tan
Odour:	Slight aromatic odour
Odour Threshold:	No information available.
pH-Value:	Not applicable.
Melting point/freezing point:	155-162 °C (Chlorthal-dimethyl)
Initial Boiling Point/Boiling Range:	No information available.
Flash Point:	No information available.
Flammability:	Product is not flammable.
Vapour Pressure at 25 °C:	0.21 mPa (Chlorthal-dimethyl)
Density:	No information available.
Solubility in Water:	Dispersible in water.
Partition Coefficient (n-octanol/water):	Kow Log P is 4.3

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Strong acids and bases will hydrolyse the ester functional groups.

Hazardous polymerisation will not occur.

Chemical Stability: Stable under normal conditions.**Conditions to Avoid:** Extreme heat and direct sunlight.**Incompatible Materials:** Oxidising agents, strong acids, and strong bases.**Hazardous Decomposition Products:** Hydrogen chloride, phosgene, and other pyrolysis products.

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11 Toxicological Information

Toxicity:**LD50/LC50 Values Relevant for Classification:**

Oral LD50 (rat) 3,000 mg/kg for Chlorthal-dimethyl

Dermal LD50 (rat) >2,000 mg/kg for Chlorthal-dimethyl

Inhalation LC50 (rat) (4hr) >4.5 mg/L for Chlorthal-dimethyl

Acute Health Effects**Inhalation:** Inhalation of dust may result in respiratory irritation.**Skin:** Causes skin irritation.**Eye:** Causes serious eye irritation.**Ingestion:** No specific symptoms. Possible generalised symptoms include nausea and vomiting.**Skin Corrosion / Irritation:** Causes skin irritation.**Serious Eye Damage / Irritation:** Causes serious eye irritation.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Data indicates no mutagenic effects.**Carcinogenicity:**

Talc not containing asbestos or asbestiform fibres is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

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

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

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

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for Chlorthal-dimethyl 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 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', 2020).

12 Ecological Information

Ecotoxicity:

Not toxic to birds or bees.

LD50 >2250 mg/kg (Bobwhite quail)

Aquatic toxicity:

1861-32-1 Chlorthal-dimethyl

LC 50 / 48h >4.6 mg/L (daphnia)

LC 50 / 48h >4.7 mg/L (fish)

Persistence and Degradability: Average field half life of chlorthal dimethyl is 100 days.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** Spray drift can cause damage, read the label for more information.

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13 Disposal Considerations

Disposal Methods and Containers:

On site disposal of the concentrated product is not acceptable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Thoroughly rinse the product out of the container and add washings to the spray tank. Dispose of washed container in landfill.

Special Precautions for Landfill or Incineration:

If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up away from waterways, desirable vegetation, and tree roots. Empty containers or the product itself should not be burnt.

14 Transport Information

UN Number Not regulated.

Proper Shipping Name Not regulated.

Dangerous Goods Class Not regulated.

Packing Group: Not regulated.

15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 1861-32-1	Chlorthal-dimethyl
CAS: 14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)

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

Poisons Schedule: 5

Australia: Priority Existing Chemicals

None of the ingredients is listed.

16 Other Information

Date of Preparation or Last Revision: 29.10.2020

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au
Abbreviations and acronyms:

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)

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 2: Serious eye damage/eye irritation – Category 2

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 - May 2018"

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