

Safety Data Sheet

according to WHS Regulations

Date of issue: 05.08.2025

Revision date: 24.07.2025

1 Identification

Product Name: TITAN METHOMYL 225 INSECTICIDE

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Agricultural insecticide.

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

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



GHS02 Flame

Flammable liquids – Category 2

H225 Highly flammable liquid and vapour.



GHS06 Skull and crossbones

Acute toxicity - oral – Category 2

H300 Fatal if swallowed.

Acute toxicity - dermal – Category 3

H311 Toxic in contact with skin.

Acute toxicity - inhalation – Category 3

H331 Toxic if inhaled.



GHS08 Health hazard

Specific target organ toxicity (single exposure) – Category 1

H370 Causes damage to the central nervous system and the visual organs.



GHS09 Environment

Aquatic Acute 1

H400 Very toxic to aquatic life.

Aquatic Chronic 1

H410 Very toxic to aquatic life with long lasting effects.

Signal Word Danger

Hazard Statements

H225 Highly flammable liquid and vapour.

H300 Fatal if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to the central nervous system and the visual organs.

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
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P312	Call a POISON CENTER/doctor if you feel unwell.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use CO ₂ , powder or water spray to extinguish.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture: consisting of the following components.**Hazardous Components:**

CAS: 67-56-1	Methanol	59.3%
	 Flammable liquids – Category 2, H225;  Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311; Acute toxicity - inhalation – Category 3, H331;  Specific target organ toxicity (single exposure) – Category 1, H370	
CAS: 16752-77-5	Methomyl	22.5%
	 Acute toxicity - oral – Category 1, H300; Acute toxicity - inhalation – Category 2, H330;  Aquatic Chronic 1, H410 (M=100)	

4 First Aid Measures

Inhalation:

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

Skin Contact:

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

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Eye Contact:

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

Ingestion:

If swallowed, and medical assistance is not immediately available, rinse mouth and give one atropine tablet (0.6 mg) every five minutes until dryness of the mouth occurs. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Toxic if inhaled. May cause headache, dizziness and possible nausea. Inhalation of high concentrations of vapour can cause central nervous system depression, loss of coordination, impaired judgement and unconsciousness.

Skin Contact: Toxic in contact with skin. Symptoms may be similar to those of ingestion.

Eye Contact: May cause irritation and pupil constriction.

Ingestion: Fatal if swallowed. Symptoms may include headache, dizziness, weakness, anxiety, nausea, salivation, tearing, abdominal cramps, vomiting, sweating, diarrhoea, respiratory difficulty, pulmonary oedema, cyanosis, convulsions, coma and heart block.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use water fog, foam, carbon dioxide or dry chemical. Do not use water jet.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, nitrogen, and sulphur.

Product is a highly flammable liquid. Vapours may travel considerable distances to a source of ignition where they can ignite, flashback, or explode.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Do not allow firefighting run-off to enter drains and watercourses.

HAZCHEM Code: •3WE

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 respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

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. Use only non-sparking tools.

Neutralise spill area and tools and equipment with a bleach or caustic/soda ash solution.

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. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Ground and bond container and receiving equipment.

Use non-sparking tools. 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.

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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 direct sunlight, heat, sparks, open flames and other sources of ignition. Keep away from strong alkalis and alkaline materials. Do not store with seed, fertilisers or food.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 67-56-1 Methanol**

WES	STEL: 328 mg/m ³ , 250 ppm TWA: 262 mg/m ³ , 200 ppm Sk
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CAS: 16752-77-5 Methomyl

WES	TWA: 2.5 mg/m ³
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Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Respiratory Protection:

Use an approved half piece respirator with combined dust and gas cartridge if high airborne concentrations of the material are present. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Elbow length PVC or rubber 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. 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:	Blue
Odour:	Sulfur-like
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	21 °C
Flammability	Highly flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density at 20 °C:	0.9 g/cm ³
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water at 25 °C:	58 g/l (methomyl)
Partition Coefficient (n-octanol/water):	No information available

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Organic solvents:**Physical state**

Liquid

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.**Chemical Stability:** Flammable at ambient temperature.**Conditions to Avoid:** Heat, sparks, open flames, hot surfaces and direct sunlight.**Incompatible Materials:** Strong alkalies and alkaline materials.**Hazardous Decomposition Products:** Oxides of carbon, nitrogen and sulphur.

11 Toxicological Information

Toxicity:**LD50/LC50 Values:****CAS: 67-56-1 Methanol**

Oral	LD50	1,187 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	17,100 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50/4 h	83.8 mg/l (Rattus norvegicus (rat))

CAS: 16752-77-5 Methomyl

Oral	LD50	30 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	>2,000 mg/kg (Rattus norvegicus (rat))

Acute Health Effects**Inhalation:**

Toxic if inhaled. May cause headache, dizziness and possible nausea. Inhalation of high concentrations of vapour can cause central nervous system depression, loss of coordination, impaired judgement and unconsciousness.

Skin: Toxic in contact with skin. Symptoms may be similar to those of ingestion.**Eye:** May cause irritation and pupil constriction.**Ingestion:**

Fatal if swallowed. Symptoms may include headache, dizziness, weakness, anxiety, nausea, salivation, tearing, abdominal cramps, vomiting, sweating, diarrhoea, respiratory difficulty, pulmonary oedema, cyanosis, convulsions, coma and heart block.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** Based on classification principles, the classification criteria are not met.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:** Causes damage to organs.**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 contact with the concentrate can cause defatting of the skin and may result in dermatitis.

Existing Conditions Aggravated by Exposure: No data available.

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Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for methomyl for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.1 (H) 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', 2024)

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Very toxic to aquatic life with long lasting effects.

CAS: 67-56-1 Methanol

LC50/96 h	13,500-17,600 ppm (Lepomis macrochirus (bluegill))
	19,500-20,700 ppm (Oncorhynchus mykiss (rainbow trout))
LC50/96 h	28,200 mg/l (Pimephales promelas (fathead minnow))

CAS: 16752-77-5 Methomyl

LC50/96 h	0.9 mg/l (Lepomis macrochirus (bluegill))
	3.4 mg/l (Oncorhynchus mykiss (rainbow trout))

Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: No data available on finished product.

Mobility in Soil: No data available on finished product.

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.

14 Transport Information

UN Number**ADG, IMDG, IATA**

UN2758

Proper Shipping Name**ADG**

2758 CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC (METHANOL, Methomyl), ENVIRONMENTALLY HAZARDOUS

IMDG, IATA

CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC (METHANOL, Methomyl)

Dangerous Goods Class**ADG Class:**

3 (6.1)

Packing Group:**ADG, IMDG, IATA**

II

Marine pollutant:

Symbol (fish and tree)

EMS Number:

F-E,S-D

Hazchem Code:

•3WE

Special Provisions:

61, 274

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Excepted quantities (EQ): E2

Limited Quantities: 1L

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:

CAS: 67-56-1 | Methanol

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 7

16 Other Information

Date of Preparation or Last Revision: 24.07.2025**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**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)
 Flammable liquids – Category 2: Flammable liquids – Category 2
 Acute toxicity - oral – Category 1: Acute toxicity – Category 1
 Acute toxicity - oral – Category 3: Acute toxicity – Category 3
 Acute toxicity - inhalation – Category 2: Acute toxicity – Category 2
 Specific target organ toxicity (single exposure) – Category 1: Specific target organ toxicity (single exposure) – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1
 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 - June 2023”.

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Titan Ag Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.