

# Safety Data Sheet

according to WHS Regulations

Printing date 04.12.2020

Revision: 04.12.2020

## 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  
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).



flame

Flammable Liquids 2                      H225 Highly flammable liquid and vapour.



skull and crossbones

Acute Toxicity (Oral) 2                      H300 Fatal if swallowed.

Acute Toxicity (Dermal) 3                      H311 Toxic in contact with skin.

Acute Toxicity (Inhalation) 3                      H331 Toxic if inhaled.



health hazard

STOT SE 1                                      H370 Causes damage to organs.



environment

Aquatic Chronic 2                              H411 Toxic to aquatic life with long lasting effects.

Aquatic Acute 2                                      H401 Toxic to aquatic life.

**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 organs.

H411 Toxic to aquatic life with long lasting effects.

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**Precautionary Statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
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/hearing 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): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep 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 to extinguish: CO <sub>2</sub> , powder or water spray.
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 regulations.

### 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

Hazardous Components:		
CAS: 67-56-1	Methanol ⚠️ Flammable Liquids 2, H225; ⚠️ Acute Toxicity (Oral) 3, H301; Acute Toxicity (Dermal) 3, H311; Acute Toxicity (Inhalation) 3, H331; ⚠️ STOT SE 1, H370	59.3%
CAS: 16752-77-5	Methomyl ⚠️ Acute Toxicity (Oral) 2, H300; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	22.5%

### 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air and keep comfortable for breathing. 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 immediate medical attention if symptoms develop.

**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 immediate medical attention.

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**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.

**Information for Doctor:** An anticholinesterase compound.

**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:** 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: •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 and full protective clothing. 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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**Product Name: TITAN METHOMYL 225 INSECTICIDE**

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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: 16752-77-5 Methomyl**NES TWA: 2.5 mg/m<sup>3</sup>**CAS: 67-56-1 Methanol**

NES STEL: 328 mg/m<sup>3</sup>, 250 ppm  
 TWA: 262 mg/m<sup>3</sup>, 200 ppm  
 Sk

**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<sup>3</sup>**Vapour Density:** No information available**Evaporation Rate:** No information available

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**Solubility in Water at 25 °C:** 58 g/l (methomyl)

## 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 Relevant for Classification:****CAS: 16752-77-5 Methomyl**

Oral	LD50	17 mg/kg (rat)
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**CAS: 67-56-1 Methanol**

Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)
Inhalation	LC50/4 h	83.8 mg/l (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:** This product does NOT contain any IARC listed chemicals.**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 information 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.

(H) indicates that the NOAEL was determined on the basis of experimental data in humans.

(Australian Pesticide and Veterinary Medicines Authority, "Acceptable daily intakes for agricultural and veterinary chemicals used in food producing crops or animals", 2020.)

### 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

**CAS: 16752-77-5 Methomyl**

EC50 / 40 h	0.032 mg/L (daphnia)
LC50 / 96 h	0.9 mg/L (bluegill)
	3.4 mg/L (rainbow trout)

**Persistence and Degradability:**

Half-life in surface water is estimated at 6 days.

Estimated half-life in ground water is more than 25 weeks.

**Bioaccumulative Potential:** Methomyl does not bioaccumulate.

**Mobility in Soil:** Low persistence in soil. Half-life in soil is approximately 14 days.

**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

CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C (Methomyl and Methanol)

IMDG, IATA

CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C

**Dangerous Goods Class**

ADG Class:

3 Flammable liquids.

Subsidiary Risk:

6.1

**Packing Group:**

ADG, IMDG, IATA

II

**Marine pollutant:**

EMS Number:

F-E,S-D

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<b>Hazchem Code:</b>	•3WE
<b>Special Provisions:</b>	61, 274
<b>Limited Quantities:</b>	1 L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC02
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T11
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	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: 7

## 16 Other Information

**Date of Preparation or Last Revision:** 04.12.2020**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.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 2: Flammable liquids – Category 2

Acute Toxicity (Oral) 2: Acute toxicity - oral – Category 2

Acute Toxicity (Oral) 3: Acute toxicity - oral – Category 3

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

### Data altered compared to the previous version:

Section 2: Hazardous Nature, Hazard Statements, Precautionary Statements, Section 4: Symptoms, Section 11: Acute Health Effects, Additional Information Section 12: Aquatic Toxicity.

### 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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