

1 Identification

Product Name: TITAN ACEPHATE 970 SG INSECTICIDE

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

Details of Manufacturer or Importer:

Titan Ag Pty Ltd
15/16 Princess 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.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Signal Word Warning

Hazard Statements

H302 Harmful if swallowed.

Precautionary Statements

- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth.
- 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: 30560-19-1 Acephate (ISO)		Acute Toxicity (Oral) 4, H302	97%
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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 if symptoms occur.

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.

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Ingestion:

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

Information for Doctor:

An anticholinesterase compound.

As early as possible, administer 2 mg of atropine sulfate i.v. and 1000-2000 mg of pralidoxime chloride or 250 mg of obidoxime chloride (adult dose) i.v. to patients suffering from severe respiratory difficulties, convulsions, and unconsciousness. Repeated doses of 2 mg of atropine sulfate should be given, as required, based on the respiration, blood pressure, pulse frequency, salivation, and convulsion conditions. Morphine, barbiturates, phenothiazine derivatives, tranquillizers, and all kinds of central stimulants are contraindicated.

Symptoms Caused by Exposure:

Inhalation: May cause nausea, vomiting and central nervous system depression.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: Harmful if swallowed. May cause nausea, vomiting and central nervous system depression.

5 Fire Fighting Measures

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

Specific Hazards Arising from the Chemical:

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

This product is non-combustible, but may decompose in a fire.

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

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 respirator, face shield or goggles, nitrile or PVC gloves, protective clothing (overall), washable hat and rubber boots. Evacuate all non-essential personnel from affected area. Do not breathe 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. Sweep up or vacuum without raising dust. Collect spilt material and waste in sealable open-top type containers for disposal.

7 Handling and Storage

Precautions for Safe Handling:

Avoid contact with alkaline materials. Contact with alkaline materials including hypochlorite bleaches may produce poisonous gases.

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Avoid generating dusts while handling the product and mixing.

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 container tightly closed when not in use. Protect from direct sunlight. Keep away strong oxidising agents, alkaline materials and hypochlorite bleaches.

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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:

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Elbow-length PVC or nitrile 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.

Cotton overalls buttoned to the neck and wrist, washable hat or other 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 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 dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:	Granules
Form:	Solid
Colour:	White
Odour:	Unpleasant sulphurous odour
Odour Threshold:	Not determined.
pH-Value:	4 - 5 (5% solution)
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability:	Non combustible material
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour Pressure at 25 °C:	0.226 mPa
Density at 20 °C:	1.35 g/cm ³
Vapour Density:	Not applicable.
Evaporation Rate:	Not applicable
Solubility in Water:	Soluble in water
Partition Coefficient (n-octanol/water):	-0.85 log POW

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10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.

Contact with alkaline materials, including hypochlorite bleaches may produce poisonous gases.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Direct sunlight.**Incompatible Materials:** Strong oxidising agents, alkaline materials and hypochlorite bleaches.**Hazardous Decomposition Products:** Oxides of carbon, phosphorous, nitrogen and sulphur.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****CAS: 30560-19-1 Acephate (ISO)**

Oral	LD50	688 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalation	LC50	> 15 mg/L (rat)

Acute Health Effects**Inhalation:** May cause nausea, vomiting and central nervous system depression.**Skin:** May cause skin irritation.**Eye:** May cause eye irritation.**Ingestion:** Harmful if swallowed. May cause nausea, vomiting and central nervous system depression.**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 available data, 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:**

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.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:**

Regular exposure may result in lowering of cholinesterase activity which will recover within a few days after exposure ceases.

Chronic exposure can cause damage to the liver.

Existing Conditions Aggravated by Exposure: No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for acephate for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.25 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

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Veterinary Chemicals', 2019).

A long-term study has shown that doses of 10 mg/kg/day cause an increased incidence liver tumours and adenoma in rats and mice.

Other studies have show that acephate is harmful to fertility and causes mutation in lymphocytes and ovaries in laboratory animals.

12 Ecological Information

Ecotoxicity: Toxic to bees. Should not be applied while bees are actively foraging.

Aquatic toxicity:

CAS: 30560-19-1 Acephate (ISO)

EC50 / 48 h 67.2 mg/L (daphnia)

LC50 / 96 h 110 mg/L (rainbow trout)

Persistence and Degradability: Half life in soil is typically 3 days.

Bioaccumulative Potential: Risk of bioaccumulation in aquatic species is low.

Mobility in Soil: No further relevant information available.

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 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: 30560-19-1 Acephate (ISO)

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

Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 19.07.2019

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)

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Acute Toxicity (Oral) 4: Acute toxicity – Category 4

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 - February 2016”

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