



# Safety Data Sheet

according to WHS Regulations

Printing date 22.11.2019

Revision: 22.11.2019

## 1 Identification

**Product Name:** TITAN AMITROLE 250 SL HERBICIDE

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Agricultural herbicide

**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)



health hazard

Toxic To Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



environment

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



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Acute Toxicity (Dermal) 4 H312 Harmful in contact with skin.

**Signal Word** Warning

**Hazard Statements**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 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.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

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

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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- P330 Rinse mouth.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P321 Specific treatment (see on this label).  
 P314 Get medical advice/attention if you feel unwell.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national regulations.  
**Additional Information** AUH032 Contact with acids liberates very toxic gas.

### 3 Composition and Information on Ingredients

#### Chemical Characterization: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### Hazardous Components:

CAS: 61-82-5	Amitrole (ISO) 	25%
CAS: 1762-95-4	Ammonium thiocyanate 	22%

### 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.

#### Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

#### Ingestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

#### Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation.

Skin Contact: Harmful in contact with skin.

Eye Contact: May cause eye irritation.

Ingestion: Harmful if swallowed. May cause nausea, vomiting, diarrhoea, convulsions and possibly skin rash. Symptoms may be similar to iodism or bromide intoxication.

### 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 nitrogen and sulphur.

This product is not flammable, but may burn or decompose in a fire.

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

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**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 an 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.

**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:**

Contact with acids liberates very toxic gas.

Corrosive to metals.

May react violently with oxidising agents.

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.

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 from strong oxidising agents, acids and metals.

**8 Exposure Controls and Personal Protection****Exposure Standards:****CAS: 1762-95-4 Ammonium thiocyanate**

WES	TWA: 5 mg/m <sup>3</sup> as CN, Sk
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**CAS: 61-82-5 Amitrole (ISO)**

WES	TWA: 0.2 mg/m <sup>3</sup>
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**Engineering Controls:** Ensure adequate ventilation of the working area.**Respiratory Protection:**

Use an 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 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:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Odour:</b>	No information available
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	6.6 - 6.9
<b>Melting point/freezing point:</b>	<0 °C
<b>Initial Boiling Point/Boiling Range:</b>	>100 °C
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Product is not flammable.
<b>Auto-ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	Negligible at normal ambient temperatures.
<b>Relative Density:</b>	1.12
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Soluble
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>% Volatiles by Weight:</b>	63 %

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:**

Hazardous polymerisation will not occur.  
 Contact with acids liberates very toxic gas.  
 Corrosive to metals.  
 May react violently with oxidising agents.

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

**Conditions to Avoid:** Direct sunlight.

**Incompatible Materials:** Strong oxidising agents, acids and metals.

**Hazardous Decomposition Products:** Oxides of nitrogen and sulphur.

### 11 Toxicological Information

**Toxicity:**

<b>LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:</b>		
<b>CAS: 61-82-5 Amitrole (ISO)</b>		
Oral	LD <sub>50</sub>	2,000 mg/kg (rat)
<b>CAS: 1762-95-4 Ammonium thiocyanate</b>		
Oral	LD <sub>50</sub>	750 mg/kg (rat)

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**Acute Health Effects****Inhalation:** May cause respiratory irritation.**Skin:** Harmful in contact with skin.**Eye:** May cause eye irritation.**Ingestion:**

Harmful if swallowed. May cause nausea, vomiting, diarrhoea, convulsions and possibly skin rash. Symptoms may be similar to iodism or bromide intoxication.

**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:**

Amitrole is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

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

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** Repeated or prolonged skin exposure may cause irritation.**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for amitrole for a human is 0.003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.025 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', 2019).

## 12 Ecological Information

**Ecotoxicity:** Not toxic to birds or bees.**Aquatic toxicity:** Toxic to aquatic life with long lasting effects.**Persistence and Degradability:** Half-life in soil is typically 14 days.**Bioaccumulative Potential:** No further relevant information available.**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.

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## 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: 61-82-5	Amitrole (ISO)
CAS: 1762-95-4	Ammonium thiocyanate

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**  
 Poisons Schedule: 5

## 16 Other Information

**Date of Preparation or Last Revision:** 22.11.2019

**Prepared by:** MSDS.COM.AU Pty Ltd

[www.msds.com.au](http://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)  
 LC<sub>50</sub>: Lethal concentration, 50 percent  
 LD<sub>50</sub>: 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 (Oral) 3: Acute toxicity – Category 3  
 Acute Toxicity (Inhalation) 4: Acute toxicity – Category 4  
 Toxic To Reproduction 2: Reproductive toxicity – Category 2  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). 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 - February 2016"  
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