

# According to Safe Work Australia

Printing date 21.07.2016 Revision: 21.07.2016

#### 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name: TITAN CLETHODIM 360 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 Princes Street Newport NSW 2106

Phone Number: 02 9999 6655

Emergency telephone number: 02 9999 6655

#### 2. HAZARDS 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)



Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

#### Signal Word Danger

#### **Hazard Statements**

H304 May be fatal if swallowed and enters airways.

### **Precautionary Statements**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

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: 64742-94-5 | Solvent naphtha (petroleum), heavy arom. | & Asp. Tox. 1, H304 | 53.4%

# 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.

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### Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. 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 mild irritation.

Skin Contact: May cause skin irritation, itchiness and reddening. Eye Contact: May cause eye irritation, stinging and reddening.

Ingestion: May be fatal if swallowed and enters airways. May cause irritation, redenning and burning sensation to mouth and throat, decreased motor activity, inco-ordination and hyperactivity.

# 5 . FIRE FIGHTING MEASURES

#### Suitable Extinguishing Media:

Use fire extinguishing methods suitable to surrounding conditions.

Carbon dioxide, dry chemical, foam and water fog. Do not use water jet.

#### **Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon, oxides of sulphur, other sulphur compounds, calcium compounds, smoke and water.

Product is combustible.

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.

#### **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, safety glasses, 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. If absorbent material is not available or spill is too large, create a dike to stop spill from spreading. Collect the spilled material and place into a suitable container for disposal.

#### 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.

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 in original container, tightly closed when not in use. Protect from heat, sparks, open flames, hot surfaces and direct sunlight.. Keep away from strong oxidising agents, strong acids and strong bases.

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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:**

Respiratory protection is not required under normal conditions of use.

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 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 (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 splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Liquid Colour: Brown

Odour: Characteristic

Odour Threshold: No information available

pH-Value: Not determined.

Melting point/Melting range: No information available Initial Boiling Point/Boiling Range: No information available

Flash Point: >61 °C

Flammability: Combustible Liquid Class 1
Auto-ignition Temperature: No information available

Decomposition Temperature: No information available

**Explosion Limits:** 

Lower:No information availableUpper:No information availableVapour Pressure:No information available

Relative Density: 0.98

Vapour Density:No information availableEvaporation Rate:No information availableSolubility in Water:Emulsifies into water.

# 10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

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

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**Conditions to Avoid:** Heat, sparks, open flames, hot surfaces and direct sunlight. **Incompatible Materials:** Strong oxidising agents, strong acids and strong bases.

#### **Hazardous Decomposition Products:**

Oxides of carbon, oxides of sulphur, other sulphur compounds, calcium compounds, smoke and water.

# 11. TOXICOLOGICAL INFORMATION

#### **Toxicity:**

LD <sub>50</sub> /LC <sub>50</sub> Values Relevant for Classification:		
99129-21-2 Clethodim		
Oral	LD <sub>50</sub>	1360- 1630 mg/kg (rat)
Inhalation	LC <sub>50</sub> /4 h	>39 mg/L (rat)

#### **Acute Health Effects**

Inhalation: May cause mild irritation.

**Skin:** May cause skin irritation, itchiness and reddening. **Eye:** May cause eye irritation, stinging and reddening.

Ingestion:

May be fatal if swallowed and enters airways. May cause irritation, redenning and burning sensation to mouth and throat, decreased motor activity, inco-ordination and hyperactivity.

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:**

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: May be fatal if swallowed and enters airways.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

#### Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for clethodim for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL 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: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', June 2014).

May cause increased liver weight and changes in blood chemistry in laboratory animals.

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity:**

Non-toxic to birds Non-toxic to bees.

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Aquatic toxicity: Slightly toxic to aquatic organisms.

Persistence and Degradability:

Not persistent in soils. Clethodim half-life in soil: 3 days.

Persistent in the aquatic environment. Half-life in water: 128 days. Half-life in sediments: 214 days

Bioaccumulative Potential: Bioaccumulation is not expected to occur.

**Mobility in Soil:** No information available **Other adverse effects:** No 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 regulatedProper Shipping Name Not regulatedDangerous Goods Class Not regulatedPacking Group: Not regulated

Marine pollutant: No

# 15. REGULATORY INFORMATION

#### **Australian Inventory of Chemical Substances:**

64742-94-5 Solvent naphtha (petroleum), heavy arom.

99129-21-2 Clethodim

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

Poisons Schedule: 5

#### 16. OTHER INFORMATION

Date of Preparation or Last Revision: 21.07.2016

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)

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)

Asp. Tox. 1: Aspiration hazard, Hazard 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 - December 2011"

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

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(Contd. of page 5) 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.