

# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 14.01.2015

Revision: 14.01.2015

## 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** TITAN CARFENTRAZONE 240 HERBICIDE**Other Means of Identification:** Agricultural herbicide**Recommended Use of the Chemical and Restriction on Use:** Agricultural herbicide**Details of Manufacturer or Importer:**Titan Ag Pty Ltd  
Suite 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 criteria of National Occupational Health &amp; Safety Commission (NOHSC), Australia.

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



health hazard

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



environment

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

H227 Combustible liquid.

**Signal Word** Danger**Hazard Statements**

H227 Combustible liquid.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P210            Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

P273            Avoid release to the environment.

P331            Do NOT induce vomiting.

P370+P378    In case of fire: Use for extinction: CO2, powder or water spray.

P391            Collect spillage.

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

P405            Store locked up.

P403+P235    Store in a well-ventilated place. Keep cool.

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.

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<b>Hazardous Components:</b>		
64742-94-5	Solvent naphtha (petroleum), heavy arom. ⚠ Asp. Tox. 1, H304	69.9%
128639-02-1	carfentrazone-ethyl (ISO) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	24%
872-50-4	2-Pyrrolidinone, 1-methyl- ⚠ Repr. 1B, H360; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; H227	2%

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

**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: Respiratory irritation, headache, dizziness, and other central nervous system effects.

Eye Contact: Severe irritation, redness, swelling, tearing and pain.

Ingestion: If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or other lung damage.

## 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 hydrogen chloride, phosgene and hydrogen fluoride.

Combustible liquid.

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:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia 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.

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**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:**

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 heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure Standards:****872-50-4 2-Pyrrolidinone, 1-methyl-**

NES	STEL: 309 mg/m <sup>3</sup> , 75 ppm TWA: 103 mg/m <sup>3</sup> , 25 ppm Sk
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**Engineering Controls:**

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

**Personal Protective Equipment (PPE):****Respiratory Protection:**

Use a Safe Work Australia 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:**

Elbow-length PVC gloves, cotton overall buttoned to the neck and wrist, safety boots and a washable hat. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 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>	Yellow-orange
<b>Odour:</b>	No information available
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	Not determined.
<b>Melting point/Melting range:</b>	Undetermined.
<b>Initial Boiling Point/Boiling Range:</b>	220-290 °C
<b>Flash Point:</b>	88 °C

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<b>Flammability:</b>	Combustible Liquid Class 1
<b>Auto-ignition Temperature:</b>	>450 °C (solvent)
<b>Decomposition Temperature:</b>	Not determined.
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour Pressure at 25 °C:</b>	0.016 mPa (carfentrazone ethyl)
<b>Density:</b>	Not determined.
<b>Relative Density at 20 °C:</b>	1.074 g/cm <sup>3</sup>
<b>Vapour Density:</b>	Not determined.
<b>Evaporation Rate:</b>	Not determined.
<b>Solubility in Water:</b>	Emulsifies into water.
<b>Partition Coefficient (n-octanol/water):</b>	3.36 log POW (carfentrazone-ethyl)

## 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.
- Conditions to Avoid:** Heat, sparks, open flames, hot surfaces and direct sunlight.
- Incompatible Materials:** Strong oxidising agents.
- Hazardous Decomposition Products:** Hydrogen chloride, phosgene and hydrogen fluoride.

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:**

<b>LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:</b>		
<b>872-50-4 2-Pyrrolidinone, 1-methyl-</b>		
Oral	LD <sub>50</sub>	3914 mg/kg (rat)
Dermal	LD <sub>50</sub>	8000 mg/kg (rabbit)
<b>128639-02-1 carfentrazone-ethyl (ISO)</b>		
Oral	LD50	5143 mg/kg (rat)
Dermal	LD50	>4000 mg/kg (rabbit)

**Acute Health Effects**

**Inhalation:** May cause respiratory irritation, headache, dizziness, and other central nervous system effects.

**Skin:** Not expected to be a hazard.

**Eye:**

The concentrate will cause severe irritation and possible damage unless washed off immediately. Possible symptoms include redness, swelling, tearing and pain.

**Ingestion:**

If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or other lung damage.

**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.

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**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:**

Repeated or prolonged skin exposure may cause de-fatting of the skin, dermatitis and possible sensitization.

**Existing Conditions Aggravated by Exposure:** No information available**12 . ECOLOGICAL INFORMATION****Ecotoxicity:** This product is not toxic to birds and bees.**Aquatic toxicity:**

Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Persistence and Degradability:** No information available**Bioaccumulative Potential:** No information available**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**

<b>UN Number</b>	
<b>ADG, IMDG, IATA</b>	UN3082
<b>Proper Shipping Name</b>	
<b>ADG</b>	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carfentrazone-ethyl (ISO))
<b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carfentrazone-ethyl (ISO)), MARINE POLLUTANT
<b>IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carfentrazone-ethyl (ISO))
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	9 (M6) Miscellaneous dangerous substances and articles.
<b>IMDG Class:</b>	9 Miscellaneous dangerous substances and articles.
<b>Packing Group:</b>	
<b>ADG, IMDG, IATA</b>	III
<b>Marine pollutant:</b>	Yes Symbol (fish and tree)

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**EMS Number:** F-A,S-F  
**Hazchem Code:** •3Z  
**Special Provisions:** 179, 274, 331, 335, AU01  
**Limited Quantities:** 5L  
**Packagings & IBCs - Packing Instruction:** P001, IBC03, LP01  
**Packagings & IBCs - Special Packing Provisions:** PP1  
**Portable Tanks & Bulk Containers - Instructions:** T4  
**Portable Tanks & Bulk Containers - Special Provisions:** TP1, TP29

## 15 . REGULATORY INFORMATION

### Australian Inventory of Chemical Substances:

64742-94-5	Solvent naphtha (petroleum), heavy arom.
872-50-4	2-Pyrrolidinone, 1-methyl-

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

## 16 . OTHER INFORMATION

**Creation Date:** 14.01.2015

**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 Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
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)

### Disclaimer

This MSDS 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"

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