

Printing date 12.12.2017

1 Identification

Safety Data Sheet

according to WHS Regulations

Revision: 12.12.2017

Product Name: TITAN CARFENTRAZONE 240EC 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 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)



Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



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

Flammable Liquids 4 H227 Combustible liquid.

Aquatic Acute 2 H401 Toxic to aquatic life.

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 flames and hot surfaces. No smoking.

P273 Avoid release to the environment.

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P331 Do NOT induce vomiting.
- P370+P378 In case of fire: Use to extinguish: CO2, powder or water spray.
- P391 Collect spillage.
- 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.

(Contd. on page 2)

according to WHS Regulations

Printing date 12.12.2017

Revision: 12.12.2017

Product Name: TITAN CARFENTRAZONE 240EC HERBICIDE

(Contd. of page 1)

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.	69.9%
	🚸 Aspiration Hazard 1, H304	
128639-02-1	Carfentrazone-ethyl (ISO)	24%
	line Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	N-methyl-2-pyrrolidone	2%
	Toxic To Reproduction 1B, H360D; Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; STOT SE 3, H335; Flammable Liquids 4, H227	

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:

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 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.

according to WHS Regulations

Printing date 12.12.2017

Product Name: TITAN CARFENTRAZONE 240EC HERBICIDE

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:

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 N-methyl-2-pyrrolidone

NES STEL: 309 mg/m³, 75 ppm TWA: 103 mg/m³, 25 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 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: Form: Colour: Odour: Odour Threshold: pH-Value: Melting point/freezing point: Initial Boiling Point/Boiling Range:

Liquid Yellow-orange No information available No information available Not determined. Undetermined. 220-290 °C

Page 3/6

Revision: 12.12.2017

(Contd. of page 2)

according to WHS Regulations

Printing date 12.12.2017

Product Name: TITAN CARFENTRAZONE 240EC HERBICIDE

(Contd. of page 3)

Revision: 12.12.2017

Flash Point: Flammability: Auto-ignition Temperature: Decomposition Temperature:	88 °C Combustible Liquid Class 1 >450 °C (solvent) Not determined.
Explosion Limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour Pressure at 25 °C:	0.016 mPa (carfentrazone ethyl)
Density:	Not determined.
Relative Density at 20 °C:	1.074 g/cm³
Vapour Density:	Not determined.
Evaporation Rate:	Not determined.
Solubility in Water:	Emulsifies into water.
Partition Coefficient (n-octanol/water)	: 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:					
LD₅₀/LC	LD ₅₀ /LC ₅₀ Values Relevant for Classification:				
872-50-	872-50-4 N-methyl-2-pyrrolidone				
Oral	LD_{50}	3914 mg/kg (rat)			
Dermal	LD_{50}	8000 mg/kg (rabbit)			
128639	128639-02-1 Carfentrazone-ethyl (ISO)				
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.

(Contd. on page 5)

according to WHS Regulations

Printing date 12.12.2017

Product Name: TITAN CARFENTRAZONE 240EC HERBICIDE

(Contd. of page 4)

Revision: 12.12.2017

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

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for carfentrazone ethyl for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 3 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', 2017).

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

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:

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

872-50-4 N-methyl-2-pyrrolidone

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

Printing date 12.12.2017

Product Name: TITAN CARFENTRAZONE 240EC HERBICIDE

16 Other Information

Date of Preparation or Last Revision: 12.12.2017

Prepared by: MSDS.COM.AU Pty Ltd

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) Flammable Liquids 4: Flammable liquids - Category 4 Skin Corrosion/Irritation 2: Skin corrosion/irritation - Category 2 Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation - Category 2A Toxic To Reproduction 1B: Reproductive toxicity - Category 1B STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Aspiration Hazard 1: Aspiration hazard - 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 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"

The information contained in this material 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 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.

Page 6/6

Revision: 12.12.2017

(Contd. of page 5)

according to WHS Regulations

www.msds.com.au