

according to WHS Regulations

Printing date 12.12.2017 Revision: 12.12.2017

1 Identification

Product Name: DICLOFOP-METHYL 375 SELECTIVE HERBICIDE by TITAN

Other Means of Identification: Mixture

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

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 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)



Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Skin Sensitisation 1 H317 May cause an allergic skin reaction.

Flammable Liquids 4 H227 Combustible liquid.

Signal Word Warning

Hazard Statements

H227 Combustible liquid.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P210 Keep away from flames and hot surfaces. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

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.

P302+P352 IF ON SKIN: Wash with plenty of water.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

according to WHS Regulations

Printing date 12.12.2017 Revision: 12.12.2017

Product Name: DICLOFOP-METHYL 375 SELECTIVE HERBICIDE by TITAN

(Contd. of page 1)

P362+P364 Take off contaminated clothing and wash it before reuse.

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.

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: 51338-27-3 Methyl 2-(4-(2,4-dichlorophenoxy)phenoxy)propionate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Toxicity (Oral) 4, H302; Skin Sensitisation 1, H317

Additional information: Liquid hydrocarbon solvent, CAS No. not supplied: 50-55%

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. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek medical attention.

Symptoms Caused by Exposure:

Skin Contact: May cause an allergic skin reaction.

Eye Contact: May cause eye irritation, stinging, reddening and watering. Prolonged exposure or delayed treatment may cause permanent eye damage.

Ingestion: Harmful if swallowed. May cause lung damage if swallowed, leading to severe injury or death.

5 Fire Fighting Measures

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

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, hydrogen chloride, other chlorine compounds and water.

Combustible liquid Class 1.

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.

(Contd. on page 3)

according to WHS Regulations

Printing date 12.12.2017 Revision: 12.12.2017

Product Name: DICLOFOP-METHYL 375 SELECTIVE HERBICIDE by TITAN

(Contd. of page 2)

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear 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.

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. Wash spill area, preventing runoff from entering drains.

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. 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.

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:

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.

(Contd. on page 4)

according to WHS Regulations

Printing date 12.12.2017 Revision: 12.12.2017

Product Name: DICLOFOP-METHYL 375 SELECTIVE HERBICIDE by TITAN

(Contd. of page 3)

9 Physical and Chemical Properties

Appearance:

Form: Liquid

Colour:
Odour:
Aromatic hydrocarbon odour
Odour Threshold:
PH-Value:
No information available

Flash Point: >65 °C

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

Explosion Limits:

Lower: No information available Upper: No information available Vapour Pressure: No information available

Relative Density: 1.027

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.

Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.

Incompatible Materials: Strong oxidising agents.

Hazardous Decomposition Products:

Oxides of carbon, hydrogen chloride, other chlorine compounds and water.

11 Toxicological Information

Toxicity:

LD ₅₀ /LC ₅₀ Values Relevant for Classification:		
51338-27-3 Methyl 2-(4-(2,4-dichlorophenoxy)phenoxy)propionate		
	LD ₅₀	>5000 mg/kg (rat) (percutaneous)
Oral	LD ₅₀	563- 693 mg/kg (rat)
Dermal	LD ₅₀	640 mg/kg (rabbit)
		>2000 mg/kg (rat)
Inhalation	LC₅₀/1 h	3.83 mg/L (rat)

Acute Health Effects

Inhalation: No adverse health effects expected. **Skin:** May cause an allergic skin reaction.

Eye: May cause eye irritation, stinging, reddening and watering.

Ingestion: Harmful if swallowed. May cause lung damage if swallowed, leading to severe injury or death.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

(Contd. on page 5)

according to WHS Regulations

Printing date 12.12.2017 Revision: 12.12.2017

Product Name: DICLOFOP-METHYL 375 SELECTIVE HERBICIDE by TITAN

(Contd. of page 4)

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: May cause an allergic skin reaction.

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:

Prolonged exposure or delayed treatment may cause permanent eye damage. Prolonged exposure may cause skin defatting and cracking.

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for diclofop-methyl for a human is 0.002 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 Veterinary Chemicals', 2017).

12 Ecological Information

Ecotoxicity:

Non-toxic to bees.

Oral LD50 4400 mg/kg (bobwhite quail)

Oral LD50 >10000 mg/kg (Japanese quail)

LC50 /8 day dietary >20000 ppm (coturnix quail)

LC50 /8 day dietary 13000 ppm (bobwhite quail)

LC50 /8 day dietary >20000 ppm (mallard duck)

Aquatic toxicity:

51338-27-3 Methyl 2-(4-(2,4-dichlorophenoxy)phenoxy)propionate

LC₅₀/48 h 4.03 ppm (daphnia)

LC₅₀/96 h 0.35 mg/L (rainbow trout)

Very toxic to aquatic life with long lasting effects.

Persistence and Degradability: Half-life in soil: 10- 30 days.

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.

(Contd. on page 6)

according to WHS Regulations

Printing date 12.12.2017 Revision: 12.12.2017

Product Name: DICLOFOP-METHYL 375 SELECTIVE HERBICIDE by TITAN

(Contd. of page 5)

14 Transport Information

UN Number Not regulatedProper Shipping Name Not regulatedDangerous Goods Class Not regulatedPacking Group: Not regulated

15 Regulatory Information

Australian Inventory of Chemical Substances:

51338-27-3 Methyl 2-(4-(2,4-dichlorophenoxy)phenoxy)propionate

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

Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 12.12.2017

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)

Flammable Liquids 4: Flammable liquids – Category 4 Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). 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 - February 2016"

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