

according to WHS Regulations

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1 Identification

Product Name: TITAN FLUROXYPYR 333 EC HERBICIDE

Other Means of Identification: Mixture APVMA Approval Number: 88496

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

Details of Manufacturer or Importer: Titan Ag Pty Ltd Princes Street Marina 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.

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



Health hazard

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



Aquatic Acute 1H400 Very toxic to aquatic life.Aquatic Chronic 1H410 Very toxic to aquatic life with long lasting effects.



Eye Irrit. 2A

H319 Causes serious eye irritation.

Signal Word Danger

Hazard Statements

H319 Causes serious eye irritation.H304 May be fatal if swallowed and enters airways.H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear eye protection / face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.

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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:		
CAS: 64742-94-5	Solvent naphtha (petroleum), heavy arom.	35-40%
	🚸 Aspiration Hazard 1, H304	
CAS: 81406-37-3	Fluoroxypyr-meptyl(ISO)	30-35%
	🚸 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 61791-26-2	Amines, tallow alkyl, ethoxylated	1-2%
	Serious Eye Damage/Irritation 1, H318; () Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315	

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 for at least 15 minutes. 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. Remove contact lenses, if present and easy to do. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. Rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Water fog, alcohol resistant foam, dry chemical powder or carbon dioxide. Do not use full water jet, as it may spread the fire.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of nitrogen, hydrogen fluoride, hydrogen chloride and other toxic gases.

Product is not flammable, buy may burn or decompose in a fire.

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

Prevent run-off from fire fighting entering drains or water courses. HAZCHEM Code: •3Z (Contd. of page 1)

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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 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. Use only non-sparking tools.

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 extreme temperatures.

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 organic 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:

Butyl rubber, chlorinated polyethylene, polyethylene or ethyl vinyl laminate 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.

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9 Physical and Chemical Properties

Appearance:	
Form:	Liquid
Colour:	Yellow to brown
Odour:	Spicy
Odour Threshold:	No information available
pH-Value:	4.58 (ASTM E70)
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	>100 °C (Closed Cup ASTM D3278)
Flammability:	Product is not flammable
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:	1.05
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Emulsifies into water.
Partition Coefficient (n-octanol/water):	No information available
Viscosity at 40 °C:	28.2 mPa·s (OECD 114)

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

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

Conditions to Avoid: Extreme temperatures.

Incompatible Materials: No further relevant information available.

Hazardous Decomposition Products:

Oxides of nitrogen, hydrogen fluoride, hydrogen chloride and other toxic gases.

11 Toxicological Information

Toxicity:

LD50/LC50 Values Relevant for Classification:				
CAS: 64742-94-5 Solvent naphtha (petroleum), heavy arom.				
Oral	_D50 5,000 mg/kg (rat)			
	_D50 2,000 mg/kg (rabbit)			
CAS: 81406-37-3 Fluoroxypyr-meptyl(ISO)				
Oral	_D50 >5,000 mg/kg (rat)			
	_D50 >2,000 mg/kg (rabbit)			
	Health Effects Ition: May cause respiratory irritation.			

Skin: May cause skin irritation.

Eye: Causes serious eye irritation.

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Ingestion: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

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

Serious Eye Damage / Irritation: Causes serious eye irritation.

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

Chronic Health Effects:

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

Existing Conditions Aggravated by Exposure: Pre-existing dermatitis.

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for fluroxypyr for a human is 0.2 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 20 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', 2021).

12 Ecological Information

Ecotoxicity:

Practically non-toxic to birds. LD50 >2250 mg/kg (Bobwhite quail)

Practically non-toxic to soil-dwelling organisms. LC50 >1000 mg/kg (earthworms)

Aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

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

EC50/48 h 12 mg/l (daphnia)

EC50/72 h 2.5 mg/l (skeletonema costatum)

LC50/96 h 45 mg/l (fathead minnow)

CAS: 81406-37-3 Fluoroxypyr-meptyl(ISO)

EC50/48 h >100 mg/l (daphnia)

EC50/96 h >100 mg/l (green algae)

LC50/96 h >100 mg/l (golden orfe)

Persistence and Degradability: Ingredients of this product are not readily biodegradable.

Bioaccumulative Potential: Ingredients of this product have a moderate potential for bioaccumulation.

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Mobility in Soil: Low mobility in soil.

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.

14 Transport Information

UN Number ADG, IMDG, IATA	UN3082		
Proper Shipping Name ADG, IATA IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluoroxypyr-meptyl(ISO), Amines, tallow alkyl, ethoxylated) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluoroxypyr-meptyl(ISO), Amines, tallow alkyl, ethoxylated), MARINE POLLUTANT		
Dangerous Goods Class ADG Class: Subsidiary Risk:	9		
Packing Group: ADG, IMDG, IATA	III		
Marine pollutant:	Symbol (fish and tree)		
EMS Number:	F-A,S-F		
Hazchem Code:	•3Z		
Special Provisions:	274, 331, 335, 375, AU01		
Transport/Additional information:	Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP 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 Industrial Chemicals:			
All ingredients are listed.			

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

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Product Name: TITAN FLUROXYPYR 333 EC HERBICIDE

Australian Pesticides and Veterinary Medicines Authority:

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 88496.

16 Other Information

Date of Preparation or Last Revision: 16.11.2021

Prepared by: MSDS.COM.AU Pty Ltd

Abbreviations and acronyms:

ADG: Australian Dangerous Goods IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association 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) Acute Toxicity (Oral) 4: Acute toxicity - Category 4 Skin Corrosion/Irritation 2: Skin corrosion/irritation - Category 2 Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Aspiration Hazard 1: Aspiration 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 - July 2020"

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 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.

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