

# Safety Data Sheet

according to WHS Regulations

Print date: 25.07.2023

Revision date: 25.07.2023

## 1 Identification

**Product Name: Titan Fluroxypyr 140 + Aminopyralid 10 EC 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  
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.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition). Classified as Dangerous Goods when transported by Air or Sea. See section 14 of this document for more details.



Health hazard

Carcinogenicity 2      H351 Suspected of causing cancer.

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



Environment

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



Eye Irritation 2A      H319 Causes serious eye irritation.

Flammable Liquids 4      H227 Combustible liquid.

Aquatic Acute 2      H401 Toxic to aquatic life.

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

H227 Combustible liquid.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H304 May be fatal if swallowed and enters airways.

H401 Toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P201      Obtain special instructions before use.

P202      Do not handle until all safety precautions have been read and understood.

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

P264      Wash thoroughly after handling.

(Contd. on page 2)

# Safety Data Sheet

## according to WHS Regulations

Print date: 25.07.2023

Revision date: 25.07.2023

**Product Name: Titan Fluroxypyr 140 + Aminopyralid 10 EC Herbicide**

(Contd. of page 1)

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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO <sub>2</sub> , powder or water spray to extinguish.
P391	Collect spillage.
P403	Store in well-ventilated place.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international 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. ⚠️ Aspiration Hazard 1, H304	40-50%
CAS: 81406-37-3	Fluroxypyr-meptyl ⚠️ Aquatic Chronic 1, H410; ⚠️ Acute Toxicity (Inhalation) 4, H332	20-30%
CAS: 34590-94-8	Dipropylene glycol monomethyl ether Flammable Liquids 4, H227	10-20%
CAS: 91-20-3	Naphthalene ⚠️ Carcinogenicity 2, H351; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠️ Acute Toxicity (Oral) 4, H302; STOT SE 3, H335	3-10%
CAS: 32612-48-9	Sodium lauryl ether sulfate ⚠️ Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315; Eye Irritation 2A, H319	3-10%
CAS: 95-63-6	Benzene, 1,2,4-trimethyl- ⚠️ Flammable Liquids 3, H226; ⚠️ Aquatic Chronic 2, H411; ⚠️ Acute Toxicity (Inhalation) 4, H332; Skin Corrosion/Irritation 2, H315; Eye Irritation 2A, H319; STOT SE 3, H335	1-3%
CAS: 107-41-5	Hexylene glycol ⚠️ Skin Corrosion/Irritation 2, H315; Eye Irritation 2A, H319	1-3%
CAS: 566191-89-7	Aminopyralid-tripromine ⚠️ Eye Damage 1, H318; ⚠️ Aquatic Chronic 1, H410	1-3%

### 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.

#### Eye Contact:

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek immediate medical attention.

(Contd. on page 3)

# Safety Data Sheet

according to WHS Regulations

Print date: 25.07.2023

Revision date: 25.07.2023

**Product Name: Titan Fluroxypyr 140 + Aminopyralid 10 EC Herbicide**

(Contd. of page 2)

**Ingestion:**

If swallowed, do not induce vomiting. Do not give any liquid to the affected person. 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 severe eye damage. May cause permanent impairment of vision, even blindness.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon, oxides of nitrogen and unidentified, potentially toxic compounds.

Product is combustible. It will burn in a larger 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

**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.

Inform respective authorities in case of seepage into water course or sewage system.

**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 or mists.

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 and other sources of ignition. Keep away from oxidising agents.

(Contd. on page 4)

# Safety Data Sheet

according to WHS Regulations

Print date: 25.07.2023

Revision date: 25.07.2023

**Product Name: Titan Fluroxypyr 140 + Aminopyralid 10 EC Herbicide**

(Contd. of page 3)

## 8 Exposure Controls and Personal Protection

**Exposure Standards:****CAS: 34590-94-8 Dipropylene glycol monomethyl ether**WES TWA: 308 mg/m<sup>3</sup>, 50 ppm  
Sk**CAS: 91-20-3 Naphthalene**WES STEL: 79 mg/m<sup>3</sup>, 15 ppm  
TWA: 52 mg/m<sup>3</sup>, 10 ppm**CAS: 107-41-5 Hexylene glycol**WES Peak limitation: 121 mg/m<sup>3</sup>, 25 ppm**Engineering Controls:**

Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

**Respiratory Protection:**

Use an approved mixed type organic vapour / particulate respirator (types A and P) 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:**

Chemical resistant gloves. Recommended materials: polyethylene, EVAL, viton, styrene/butadiene rubber, butyl rubber, neoprene, chlorinated polyethylene, latex, PVC or NBR. 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:**

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

## 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Yellow
<b>Odour:</b>	Waxy
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	4.5 - 7.5
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	65.6 °C (closed cup)
<b>Flammability (solid, gas):</b>	Not applicable
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Density at 20 °C:</b>	0.993 g/cm <sup>3</sup>
<b>Vapour Density:</b>	No information available

(Contd. on page 5)

# Safety Data Sheet

according to WHS Regulations

Print date: 25.07.2023

Revision date: 25.07.2023

**Product Name: Titan Fluroxypyr 140 + Aminopyralid 10 EC Herbicide**

(Contd. of page 4)

<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Forms an emulsion in water
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity at 40 °C:</b>	5.77 mm <sup>2</sup> /s

## 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** No dangerous reactions known under conditions of normal use.

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

**Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.

**Incompatible Materials:** Strong oxidising agents.

**Hazardous Decomposition Products:**

Oxides of carbon, oxides of nitrogen and unidentified, potentially toxic compounds.

## 11 Toxicological Information

**Toxicity:**

**LD50/LC50 Values:**

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

Oral	LD50	5,000 mg/kg (Rattus norvegicus (rat))
	LD50	2,000 mg/kg (Oryctolagus cuniculus (rabbit))

**CAS: 81406-37-3 Fluroxypyr-meptyl**

Oral	LD50	>2,000 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	>2,000 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50/4 h	>1 mg/l (Rattus norvegicus (rat))

**CAS: 34590-94-8 Dipropylene glycol monomethyl ether**

Oral	LD50	5,135 mg/kg (Rattus norvegicus (rat))
	LD50	>19,000 mg/kg (Oryctolagus cuniculus (rabbit))

**CAS: 91-20-3 Naphthalene**

Oral	LD50	490 mg/kg (Rattus norvegicus (rat))
	LD50	5,000 mg/kg (Rattus norvegicus (rat))

**CAS: 95-63-6 Benzene, 1,2,4-trimethyl-**

Oral	LD50	5,000 mg/kg (Rattus norvegicus (rat))
	LD50	3,160 mg/kg (Oryctolagus cuniculus (rabbit))
Inhalation	LC50/4 h	18 mg/l (Rattus norvegicus (rat))

**CAS: 107-41-5 Hexylene glycol**

Oral	LD50	3,700 mg/kg (Rattus norvegicus (rat))
	LD50	8,560 mg/kg (Oryctolagus cuniculus (rabbit))

### Acute Health Effects

**Inhalation:** May cause respiratory irritation.

**Skin:** May cause skin irritation.

**Eye:** Causes severe eye damage. May cause permanent impairment of vision, even blindness.

**Ingestion:** 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.

(Contd. on page 6)

# Safety Data Sheet

according to WHS Regulations

Print date: 25.07.2023

Revision date: 25.07.2023

**Product Name: Titan Fluroxypyr 140 + Aminopyralid 10 EC Herbicide**

(Contd. of page 5)

**Carcinogenicity:** Suspected of causing cancer.**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 furoxypyr 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.

The Australian Acceptable Daily Intake (ADI) for aminopyralid for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 26 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', 2023).

## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

Very toxic to aquatic life with long lasting effects.

<b>CAS: 64742-94-5 Solvent naphtha (petroleum), heavy arom.</b>	
EC50/48 h	12 mg/l (Daphnia magna (water flea))
EC50/72 h	2.5 mg/l (Skeletonema costatum (diatom))
LC50/96 h	45 mg/l (Pimephales promelas (fathead minnow))
<b>CAS: 81406-37-3 Fluroxypyr-meptyl</b>	
EC50/48 h	>0.183 mg/l (Daphnia magna (water flea))
EC50/72 h	>0.5 mg/l (Scenedesmus subspicatus (green algae))
EC50/96 h	>0.5 mg/l (Scenedesmus subspicatus (green algae))
LC50/96 h	>0.225 mg/l (Oncorhynchus mykiss (rainbow trout))
<b>CAS: 91-20-3 Naphthalene</b>	
EC50/48 h	1.6 mg/l (Crustacea)
EC50/72 h	0.4-0.5 mg/l (Algae)
LC50/96 h	0.213 mg/l (fish)
<b>CAS: 95-63-6 Benzene, 1,2,4-trimethyl-</b>	
LC50/96 h	7.19-8.28 mg/l (Pimephales promelas (fathead minnow))

**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

(Contd. on page 7)

# Safety Data Sheet

according to WHS Regulations

Print date: 25.07.2023

Revision date: 25.07.2023

**Product Name: Titan Fluroxypyr 140 + Aminopyralid 10 EC Herbicide**

(Contd. of page 6)

## 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 ADG, IMDG, IATA</b>	UN3082
<b>Proper Shipping Name ADG, IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Naphthalene, Fluroxypyr-meptyl)
<b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Naphthalene, Fluroxypyr-meptyl), MARINE POLLUTANT
<b>Dangerous Goods Class ADG Class:</b>	9
<b>Packing Group: ADG, IMDG, IATA</b>	III
<b>Marine pollutant:</b>	Yes
<b>EMS Number:</b>	F-A,S-F
<b>Hazchem Code:</b>	•3Z
<b>Special Provisions:</b>	274, 331, 335, 375, AU01
<b>Transport/Additional information:</b>	Not subject to the ADG Code when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg(L) or IBCs. (refer to SP AU01)
<b>Excepted quantities (EQ):</b>	E1
<b>Limited Quantities:</b>	5L

## 15 Regulatory Information

**Australian Inventory of Industrial Chemicals:**

All components are on the inventory, or in compliance with the inventory.

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

Poisons Schedule: 6

## 16 Other Information

**Date of Preparation or Last Revision:** 25.07.2023

**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 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 3: Flammable liquids – Category 3

(Contd. on page 8)

# Safety Data Sheet

## according to WHS Regulations

Print date: 25.07.2023

Revision date: 25.07.2023

**Product Name: Titan Fluroxypyr 140 + Aminopyralid 10 EC Herbicide**

(Contd. of page 7)

Flammable Liquids 4: Flammable liquids – Category 4  
Acute Toxicity (Inhalation) 4: Acute toxicity – Category 4  
Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2  
Eye Damage 1: Serious eye damage/eye irritation – Category 1  
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A  
Carcinogenicity 2: Carcinogenicity – Category 2  
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 - 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 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.