

# Safety Data Sheet

according to WHS Regulations

Printing date 03.12.2021

Revision: 03.12.2021

## 1 Identification

**Product Name: Titan Butafenacil 200 EC Herbicide****Other Means of Identification:** Mixture**APVMA Approval Number:** 90360**Recommended Use of the Chemical and Restriction on Use:**

Agricultural herbicide. Restricted for professional use only.

**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), IATA and IMDG/IMSBC.

Not subject to the ADG Code when transported in Australia by Road or Rail in packagings that do not incorporate a receptacle exceeding 500(L) or less; or IBCs (refer to SP AU01). However if transported by Air or Sea, this provision does not apply.



Health hazard

STOT RE 2      H373 May cause damage to organs through prolonged or repeated exposure.



Environment

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

Eye Irrit. 2B      H320 Causes eye irritation.

Aquatic Acute 2    H401 Toxic to aquatic life.

**Signal Word** Warning**Hazard Statements**

H320 Causes eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P260      Do not breathe dust/fume/gas/mist/vapours/spray.

P264      Wash thoroughly after handling.

P273      Avoid release to the environment.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314      Get medical advice/attention if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P391      Collect spillage.

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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: 134605-64-4	Butafenacil	<25%
	☠ STOT RE 2, H373; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 61791-26-2	Amines, tallow alkyl, ethoxylated	<0.5%
	☠ Skin Corrosion/Irritation 1C, H314; Serious Eye Damage/Irritation 1, H318; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Acute Toxicity (Oral) 4, H302	

### 4 First Aid Measures

**General Information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**Inhalation:**

If inhaled, remove to fresh air and keep at rest. Avoid all unnecessary movement. 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 for 10-20 minutes with warm water and non-abrasive soap. Repeat flushing and seek medical attention if symptoms persist.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for at least 15 minutes while holding eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Take special care if the exposed person is wearing contact lenses. Continue rinsing. Seek immediate medical attention.

**Ingestion:**

If swallowed, do NOT induce vomiting. Seek immediate medical attention and show this SDS or the product label.

**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation.

Skin Contact: May cause mild skin irritation.

Eye Contact: Causes eye irritation. May cause redness and lachrymation.

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

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:**

For small fires, use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Fight larger fires with water spray or alcohol-resistant foam.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include carbon dioxide, carbon monoxide, smoke, oxides of nitrogen, other nitrogen compounds and hydrogen cyanide gas.

This product is not flammable, but may burn or decompose in a fire.

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

Prevent firefighting run off from entering drains or water courses.

Hazchem Code: •3Z

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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 protective equipment. Keep unprotected persons away. Do not breathe vapours. Ensure adequate ventilation.

**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. In the event of a major spillage, create a dike to stop spill from spreading. Collect the spilled material and place into suitable containers for disposal. Decontaminate area with detergent and the smallest volume of water practicable and rinse.

**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 in original container, tightly closed when not in use. Protect from direct sunlight, heat, sparks, open flames and hot surfaces. Keep away from strong oxidising agents, strong acids and strong bases.

**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:**

Respiratory protection is not usually required unless handling the product in bulk.

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.

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**Eye and Face Protection:**

Protective glasses or goggles 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>	Light and yellowish light brown liquid
<b>Odour:</b>	Characteristic
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	8-10 (1% solution)
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	> 80 °C
<b>Flammability:</b>	This product is not flammable, but may burn or decompose in a fire.
<b>Ignition Temperature</b>	No information available
<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:</b>	No information available
<b>Relative Density:</b>	0.9-1.2
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Emulsifies into water
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity:</b>	No information available

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

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

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

**Incompatible Materials:** strong oxidising agents, strong acids and strong bases.

**Hazardous Decomposition Products:**

Hazardous combustion products include carbon dioxide, carbon monoxide, smoke, oxides of nitrogen, other nitrogen compounds and hydrogen cyanide gas.

### 11 Toxicological Information

**Toxicity:****LD50/LC50 Values:****CAS: 134605-64-4 Butafenacil**

Inhalation | LC50/4 h | &gt;5.1 mg/l (rat)

**Acute Health Effects****Inhalation:** May cause respiratory irritation.**Skin:** May cause mild skin irritation.**Eye:** Causes eye irritation. May cause redness and lachrymation.

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

May cause damage to organs through prolonged or repeated exposure.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No data associated with long term health effects.**Existing Conditions Aggravated by Exposure:** No data available.**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for butafenacil for a human is 0.004 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.36 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:****Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

**CAS: 134605-64-4 Butafenacil**

EC50/48 h	8.6 mg/l (daphnia)
EC50/72 h	0.00011 mg/l (skeletonema costatum)
LC50/96 h	3.9 mg/l (rainbow trout)

**Persistence and Degradability:** Butafenacil is not readily biodegradable.**Bioaccumulative Potential:** Butafenacil does not bioaccumulate.**Mobility in Soil:** Butafenacil has low to high 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.

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## 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. (Butafenacil)
<b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Butafenacil), MARINE POLLUTANT
<b>Dangerous Goods Class ADG Class:</b>	9
<b>Subsidiary Risk:</b>	
<b>Packing Group: ADG, IMDG, IATA</b>	III
<b>Marine pollutant:</b>	Yes Symbol (fish and tree)
<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>Limited Quantities:</b>	5L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC03, LP01
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	PP1
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T4
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP1, TP29

## 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: 5

**Australian Pesticides and Veterinary Medicines Authority:**

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 90360.

## 16 Other Information

**Date of Preparation or Last Revision:** 03.12.2021**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

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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 1C: Skin corrosion/irritation – Category 1C  
Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
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”

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