Safety Data Sheet
according to WHS Regulations

Date of issue: 09.06.2025 Revision date: 08.06.2025

1 Identification

Product Name: TITAN HALOSULFURON 750 WG 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 Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).
Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

GHS08 Health hazard

Reproductive toxicity – Category 1B H360D May damage the unborn child.

GHS09 Environment

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

Signal Word Danger

Hazard Statements
H360D May damage the unborn child.
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.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P391 Collect spillage.
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.

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Hazardous Components:		
CAS: 100784-20-1	Halosulfuron-methyl	75.0%
	Acute toxicity - inhalation – Category 3, H331; Reproductive toxicity – Category 1B, H360D; Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=1000); Acute toxicity - dermal – Category 4, H312	

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 immediate medical attention.

Symptoms Caused by Exposure:
Inhalation: No adverse health effects expected.
Skin Contact: No adverse health effects expected.
Eye Contact: No adverse health effects expected.
Ingestion: No adverse health effects expected.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:
Hazardous combustion products include oxides of carbon and nitrogen and various hydrocarbons.
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.

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 dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

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 sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Wash spill area and contaminated tools with a solution of water, vinegar and soap. Neutralise with bleach or caustic soda solution and rinse with soapy water.

7 Handling and Storage

Precautions for Safe Handling:
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.
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

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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 direct sunlight. Keep away from strong oxidising agents, chlorates, nitrates and peroxides.

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 required under normal use conditions.

Skin Protection:
Chemical resistant gloves are recommended. 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 should be worn (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 dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:	
Form:	Granulate
Colour:	Beige
Odour:	Scorched vanilla odour
Odour Threshold:	No information available
pH-Value:	Not applicable
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
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:	Not applicable
Relative Density:	Not determined.
Vapour Density:	Not applicable
Evaporation Rate:	Not applicable
Solubility in Water:	Dispersible
Partition Coefficient (n-octanol/water):	No information available
Organic solvents:	
Physical state	Solid

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

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

Conditions to Avoid: Direct sunlight.

Incompatible Materials: Strong oxidising agents, chlorates, nitrates and peroxides.

Hazardous Decomposition Products: Oxides of carbon and nitrogen and various hydrocarbons.

11 Toxicological Information

Toxicity:

LD50/LC50 Values:		
CAS: 100784-20-1 Halosulfuron-methyl		
Oral	LD50	7,758 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	2,000 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50/4 h	>6 mg/l (Rattus norvegicus (rat))

Acute Health Effects
Inhalation: No adverse health effects expected.
Skin: No adverse health effects expected.
Eye: No adverse health effects expected.
Ingestion: No adverse health effects expected.

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

Reproductive Toxicity: May damage fertility or the unborn child.

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: 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 halosulfuron-methyl for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 1 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', 2024)

12 Ecological Information

Ecotoxicity:

Aquatic toxicity:
Very toxic to aquatic life with long lasting effects.

CAS: 100784-20-1 Halosulfuron-methyl	
LC50/96 h	>118 mg/l (Lepomis macrochirus (bluegill))

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	>131 mg/l (Oncorhynchus mykiss (rainbow trout))
LC50/48 h	>107 mg/l (Daphnia magna (water flea))

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.

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 UN3077

Proper Shipping Name
ADG 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Halosulfuron-methyl)
IMDG, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Halosulfuron-methyl)

Dangerous Goods Class
ADG Class: 9

Packing Group:
ADG, IMDG, IATA III

Marine pollutant: Symbol (fish and tree)

EMS Number: F-A,S-F

Hazchem Code: 2Z

Special Provisions: 274 335 375 601

Limited Quantities: 5 kg

Packagings & IBCs - Packing Instruction: P002 IBC08 LP02 R001

Packagings & IBCs - Special Packing Provisions: PP12 B3

Portable Tanks & Bulk Containers - Instructions: T1 BK1 BK2 BK3

Portable Tanks & Bulk Containers - Special Provisions: TP33

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

CAS: 100784-20-1	Halosulfuron-methyl

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

16 Other Information

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Prepared by: MSDS.COM.AU Pty Ltd 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)
Acute toxicity - dermal – Category 4: Acute toxicity – Category 4
Acute toxicity - inhalation – Category 3: Acute toxicity – Category 3
Reproductive toxicity – Category 1B: Reproductive toxicity – Category 1B
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 - June 2023”.
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