

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	Sabakem Metribuzin 750 WG Herbicide
Other means of identification	Water dispersible granule containing metribuzin
Recommended use of the chemical and restrictions on use:	Agricultural herbicide for use as described on the product label.
Supplier:	Sabakem Pty Ltd
Street address:	Suite 809, Level 8, 2 Queen St Melbourne VIC 3000 Australia
Telephone no.:	03 9629 3979
Website:	www.sabakem.com
Emergency telephone:	Poisons Information Centre 13 11 26 (24 hours)

2. HAZARDS IDENTIFICATION

Classification of the substance mixture: This material is hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia; HAZARDOUS SUBSTANCE.

Classification of the substance or mixture:
Acute Oral Toxicity Category 4

The following environment hazard categories fall outside the scope of the Workplace Health and Safety Regulations:

Aquatic acute toxicity – Category 1
Aquatic chronic toxicity – Category 1

SIGNAL WORD: WARNING



Hazard Statement(s):

H302: Harmful if swallowed.
H400: Very toxic to aquatic life.

Precautionary Statements:

Prevention:

P264: Wash contacted areas thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.

Response:

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P330: Rinse mouth.
P391: Collect spillage.

Disposal:

P501: Dispose of contents/container as per container label, in accordance with local/state/territory government regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion (w/w)
Metribuzin	23950-58-5	75%
Other components are not considered hazardous in this formulation and therefore are not required to be disclosed according to the WHS Regulations.		

4. FIRST AID MEASURES

If poisoning occurs, contact a Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766 or a doctor. Have this SDS or the label with you.

Inhalation:	If inhaled, remove to fresh air and observe until recovered. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.
Skin contact:	Gently brush away excess particles. Remove contaminated clothing and wash with plenty of water and soap. If symptoms develop, seek medical attention.
Eye contact:	If irritation occurs, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.
Ingestion:	If swallowed do not induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.
First aid facilities:	Eyewash and normal washroom facilities.
Medical attention and special treatment:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing equipment:	If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder)
Hazchem code:	2Z (bulk only)
Specific hazards arising from the chemical:	Hazardous combustion products include oxides of carbon, nitrogen, nitrogen compounds, oxides of sulphur and other sulphur compounds Combustible solid. Clouds of dust in a confined or unventilated space may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion.
Special protective equipment and precautions for fire-fighters:	In case of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and chemical-protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions/Protective equipment:	Wear appropriate respiratory protection, chemical resistant gloves, protective clothing and safety boots.
Emergency procedures	Evacuate all non-essential personnel from affected area and call emergency services.
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 contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Consider vacuuming if appropriate.

7. HANDLING AND STORAGE

Precautions for safe handling:	Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Keep containers closed at all times - check regularly for leaks or spills. Transport and store upright. Refer to Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under 'Storage' should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
Conditions for safe storage, including any incompatibilities:	This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Check packaging - there may be further storage instructions on the label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure control measures:	No value assigned for this specific product by Safe Work Australia (SWA) SWA exposure limits for Metribuzin TWA = 5 mg/m ³
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Engineering controls: Use in well-ventilated areas. Keep containers closed when not in use.

Individual protection measures, such as Personal Protective Equipment (PPE):

See container label safety directions. The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Observe good standards of hygiene and cleanliness. Always wash hands, arms and face thoroughly with soap and water before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment with detergent and warm water before storage or re-use.

Respiratory protection: If engineering controls are not effective in controlling airborne exposure, then an approved respirator with a replaceable vapour/mist filter should be used. Consult AS/NZS 1715 and AS/NZS 1716 for further information.

Eye and face protection: Avoid contact with eyes. Safety glasses/goggles with side shield protection should be worn as a general precaution. Consult AS/NZS 1336 and AS/NZS 1337 for further information.

Skin protection: Full protective clothing, and elbow-length PVC or chemical resistant gloves must be worn when opening the container and using the product. Always check with the glove manufacturer or your personal protective equipment supplier regarding the correct type of glove to use. Consult AS/NZS 2161, AS/NZS 45-1 and AS/NZS2210 for further information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Granules
Colour:	Of-white to beige
Odour:	Mild sulphurous
pH:	No data
Specific gravity:	No specific data. Solid at normal temperatures.
Melting point/Freezing point:	126 °C (Metribuzin)
Boiling point/range:	No data
Flash point:	Not applicable
Evaporation point:	No data
Vapour pressure:	No data
Vapour density:	No data
Solubility:	No data
Partition coefficient: n-octanol/water	No data

Auto-ignition temperature: No data
Decomposition temperature: No data
Viscosity: Not applicable

10. STABILITY AND REACTIVITY

Reactivity: No known reactivity hazards associated with this product, under normal conditions of use.

Chemical stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions: This product will not undergo polymerisation reactions.

Conditions to avoid: Heat, sparks, open flames and other sources of ignition. Do not store in direct sunlight.

Incompatible materials: Strong acids, strong bases, strong oxidising agents.

Hazardous decomposition products: Oxides of carbon, nitrogen, nitrogen compounds, oxides of sulphur, and other sulphur compounds.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Product causes acute toxicity via oral route and is harmful if swallowed. Following is the acute toxicity data available for the active constituent Metribuzin:
Acute oral toxicity - LD50 (Rat): 1090 - 2300 mg/kg; LD50 (Mice): 700 mg/kg; LD50 (Guinea Pigs): 245 - 274 mg/kg
Acute dermal toxicity - LD50 (Rabbit) > 20000 mg/kg
Acute inhalation toxicity - LC50 (Rat) > 0.65 mg/L, 4 hr

Skin irritation: Based on classification principles, the classification criteria are not met. Product may be irritating to skin but is unlikely to cause anything more than mild transient discomfort.

Eye irritation: Based on classification principles, the classification criteria are not met. Product may be irritating to skin but is unlikely to cause anything more than mild transient discomfort.

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

STOT-single exposure: Based on classification principles, the classification criteria are not met.

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: Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of metribuzin

12. ECOLOGICAL INFORMATION

Ecotoxicity: Available information on this product indicates that this product is classified as an acute and chronic aquatic toxicant.

Toxicity data is available on the active constituent, Metribuzin:

Fish: Acute 96h =	LC50 74.6 mg/L (Rainbow trout)
Aquatic invertebrate: Acute 48 h	LC50 49.6 mg/l (Daphnia)
Birds: Acute LD50:	169.2 mg kg ⁻¹ bw d ⁻¹ (Bobwhite quail)
Birds: Chronic NOEC:	62 ppm (Bobwhite quail)
Birds: Chronic NOEC:	368 ppm (Mallard duck)

Persistence/ Degradability:	Metribuzin is of moderate persistence in the soil environment. Half life in soil is typically 60 days. The half-life of Metribuzin in pond water is approximately 7 days. If present, Metribuzin would most likely be found in the water column rather than the sediment, due to its low binding affinity and high water solubility.
Bioaccumulative potential:	No information available.
Mobility in soil:	There is a potential for leaching, as metribuzin is water soluble and is poorly bound to most soils.

13. DISPOSAL CONSIDERATIONS

Disposal methods:	Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations and the product label.
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14. TRANSPORT INFORMATION

Road and rail transport:	Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in; (a) packagings that do not incorporate a receptacle exceeding 500 kg(L); (b) or IBCs.
Marine transport:	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; MARINE POLLUTANT UN Number: 3077 Proper Shipping Name or Technical Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS THIDIAZURON) Transport Hazard Class: 9 Packaging Group: III IMDG EMS Fire: F-A IMDG EMS Spill: S - F Environmental hazards: Yes Additional Information: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
Air transport:	IATA provision SP A197: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code when transported air in; packages that have inner packages (plastic bottles, glass bottles, plastic bags) of 5 L for UN3082 and 5 kg for UN3077 or less.

15. REGULATORY INFORMATION

Poison schedule (SUSMP):	Schedule 6
APVMA approval no.:	86771
AICIS:	All the constituents of this material are either listed on the Australian Inventory of Industrial Chemicals (AIIC), not required due the nature of the chemical as they are excluded as an industrial chemical or have been assessed under the Industrial Chemicals Act 1989 as amended.

16. OTHER INFORMATION

General information:	None
Issue number:	003
Issue date:	19 August 2024



**Safety Data Sheet: Sabakem
Metribuzin 750 WG Herbicide**

Date of Issue: 19 August 2024

In any event, the review and, if necessary, the re-issue of an SDS shall be no longer than 5 years after the last date of issue.

Reason(s) for issue:

Five-year update and updated to latest GHS requirements

Key abbreviations or acronyms used:

ADG Code - Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)

ADI – Acceptable Daily Intake

AICIS – Australian Industrial Chemicals Introduction Scheme (formerly NICNAS)

AIIC - Australian Inventory of Industrial Chemicals

APVMA – Agricultural Pesticides and Veterinary Medicines Australia

GHS - Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition) 2017

IARC - International Agency for Research on Cancer

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (July 2023)

LOAEL – Lowest Observed Adverse Effect Level

STEL - Short term exposure limit means the average airborne concentration of a substance calculated over a 15 minute period. The STEL should not be exceeded at any time during a normal eight hour working day.

SUSMP - Standard for the Uniform Scheduling of Medicines & Poisons

SWA - Safe Work Australia, formerly ASCC and NOHSC

TGA – Therapeutic Goods Australia

TWA - Time-weighted average means the average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

WHS – Workplace Health and Safety

The physical values and properties described in this SDS are typical values based on scientific literature and material produced to date, and are believed to be reliable. The manufacturer, Sabakem Pte Ltd provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. The information is supplied upon the condition that the persons receiving information will make their own determination as to the suitability for their purposes prior to use of this product. Due care should be taken to ensure that the use of this product and its disposal is in compliance with all relevant Federal, State and Local Government regulations.

End of SDS