Date of Issue: 18 July 2024

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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| **Product name:** | **Sabakem Propyzamide 500 SC Herbicide** |
| **Other means of identification** | Suspension concentrate containing propyzamide |
| **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<br>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:**
Skin Irritation Category 2
Eye irritation Category 2B
Carcinogenicity– Cat 2

**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):**
H315: Causes skin irritation.
H320: Causes eye irritation.
H351: Suspected of causing cancer.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statement(s):**
**Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood
P262: Do not get in eyes, on skin, or on clothing.

P264 Wash hands and exposed skin thoroughly after handling
P280: Wear protective gloves, clothing and face protection.
P273: Avoid release to the environment.

**Response:**
P302 + P352 IF ON SKIN: Wash with plenty of soap and water
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.
P332 + P313 If skin irritation occurs: Get medical advice/attention
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391: Collect spillage

**Storage:**
P405: Store locked up

**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/v) |
|---|---|---|
| Propyzamide | 23950-58-5 | 500 g/L |
| Ethylene glycol | 107-21-1 | 42-50 g/L |
| 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, bring affected person to fresh air. If symptoms develop, contact a Poisons Information Centre or a doctor at once.

**Skin contact:** Remove contaminated clothing and wash with plenty of water and soap. If symptoms develop, seek medical attention.

**Eye contact:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes. Seek medical advice.

**Ingestion:** If swallowed, wash mouth with water and contact a Poisons Information Centre, or call a doctor. Do not induce vomiting unless told to do so by the Poisons Information Centre or doctor.

**First aid facilities:** Eyewash and normal washroom facilities.

**Medical attention and special treatment:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing equipment:** Carbon dioxide, dry chemical, foam or water fog

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| **Hazchem code:** | •3Z (bulk only) |
| **Specific hazards arising from the chemical:** | The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. |
| **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. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately. Do not allow contaminated water to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. |

## 6. ACCIDENTAL RELEASE MEASURES

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| **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 spill, prevent spillage from entering drains or water courses with absorbent material. |
| **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. |

## 7. HANDLING AND STORAGE

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| **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:** | Store packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Keep containers dry and away from water. Make sure that the product does not come into contact with substances listed under 'Incompatibilities' in Section 10. Check packaging - there may be further storage instructions on the label. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| **Exposure control measures:** | No value assigned for this specific product by Safe Work Australia (SWA)<br>SWA exposure limits for Ethylene glycol<br>TWA = 52 mg/m$^3$<br>STEL = 104 mg/m$^3$ |
| **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.

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| **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

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| **Physical state:** | Liquid |
| **Colour:** | No available data |
| **Odour:** | No available data |
| **pH:** | No available data |
| **Specific gravity:** | No available data |
| **Melting point/Freezing point:** | No specific data. Liquid at normal temperatures. |
| **Boiling point/range:** | No available data |
| **Flash point:** | No available data |
| **Evaporation point:** | No available data |
| **Vapour pressure:** | No available data |
| **Vapour density:** | No available data |
| **Solubility:** | No available data |
| **Partition coefficient: n- octanol/water** | No available data |
| **Auto-ignition temperature:** | No available data |
| **Decomposition temperature:** | No available data |
| **Viscosity:** | No available data |

## 10. STABILITY AND REACTIVITY

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| **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:** | Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. |

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Not considered acutely harmful and does not cause toxicity via oral, dermal and inhalation route, according to available information. Data is not available on the product. The following information is available on the hazardous ingredients.

Ethylene glycol
LD50 (Rat), Oral = >5000 mg/kg bw

Propyzamide
LD50 (Rat), Oral = >5000 mg/kg bw
LD50 (Rat), Dermal = >3160 mg/kg bw
LC50 (Rat), Inhalation = >5mg/L/4hr

**Skin irritation:** Not considered a skin irritant according to available information.
**Eye irritation:** Not considered an eye irritant according to available information.
**Respiratory or skin sensitisation:** Not considered a skin sensitiser according to available information.
**Germ cell mutagenicity:** Not suspected to cause genetic defects according to available data.
**Carcinogenicity:** Suspected of causing cancer.
**Reproductive toxicity:** Not considered to be toxic to reproduction according to available data.
**STOT-single exposure:** Not expected to cause toxicity to a specific target organ according to available data.
**STOT-repeated exposure:** Not expected to cause toxicity to a specific target organ according to available data.
**Aspiration hazard:** Not expected to be an aspiration hazard according to available data.
**Chronic health effects:** Not expected to cause chronic health effects according to available data.

## 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, Propyzamide**:

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| Fish: Acute 96h = | LC50 >4.7 mg/L (Rainbow trout) |
| Fish: Chronic 21 day NOEC = | 0.94 mg $l^{-1}$ (Rainbow trout) |
| Aquatic crustacean: Acute 48 h LC50 | 3.9 mg/l (Mysid shrimp) |
| Sediment organism: Acute 48 h LC50: | 0.34 mg/l (midge) |
| Sediment organism: Chronic 21 day NOEC | 0.45 mg/l (midge) |
| Aquatic plants: Acute 7 day $EC_{50}$,: | 1.4 mg $l^{-1}$ (*Lemna gibba*) |
| Algae: Acute 72 hour $EC_{50}$, growth: | 2.8 mg $l^{-1}$ (*Raphidocelis subcapitata*) |
| Birds: Chronic 21d NOEL: | 30.9 mg $kg^{-1}$ bw $d^{-1}$ (Bobwhite quail) |
| Earthworms: Acute 14 day $LC_{50}$: | > 173 mg $kg^{-1}$ (*Eisenia foetida*) |

Earthworms: Chronic NOEC, reproduction: 3.3 mg $kg^{-1}$ (*Eisenia foetida*)

**Persistence/ Degradability:** No information available on the product.
Propyzamide: Moderately persistent and moderate amount of Propyzamide breakdown is carried out by soil microorganisms.
Half-life in soil = 50.5 – 233.1 days

**Bioaccumulative potential:** Accumulation of the herbicide from repeated annual applications to the same soil does not appear problematic. Chemical degradation may be the main route of disappearance from the soil. Photodecomposition at the soil surface can also occur.

**Mobility in soil:** Propyzamide: Slightly mobile (Koc 840mL $g^{-1}$). In most soil types, there is very little movement or leaching.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations. Break, crush or puncture and dispose of empty containers in a local authority landfill. Triple rinse and bury rinsate and empty capsules in a local authority landfill. If no landfill is available, bury the containers below 0.5m in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product must not be burnt. Do NOT re-use containers for any other purpose.

## 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

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| UN Number: | 3082 |
| 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.:** 86707

**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

Date of Issue: 18 July 2024

**Issue number:** 003
**Issue date:** 18 July 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