

# SAFETY DATA SHEET

According to Safe Work Australia

Print Date: 17.01.2023

Revision: 17.01.2023

## 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** RAPISOL® ZBM

**Product Type:** Agricultural fertiliser (WG)

**Recommended Use of the Chemical and Restriction on Use:** For use as a soil or foliar fertiliser in various agricultural situations as per Directions for Use on the label.

**Details of Manufacturer or Importer:**

Agspec Australia Pty Ltd (ABN 40 109 753 953)

1 Krummel Street

Mt Gambier, SA 5290

**Phone Number:** 1800 683 456

**Emergency telephone number:**

Poisons Information Centre (Australia): 13 11 26

Agspec Technical Manager: +61 427 490 551

## 2. HAZARDS IDENTIFICATION

**GHS Classification of the substance:**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

NOT classified as Dangerous Goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).



Health hazard

**Signal Word:** Danger

**Hazard Statements:**

H360 May damage fertility or the unborn child.

**Precautionary Statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P201 Obtain special instructions before use.

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization:**

**Hazardous Components:**

- 10043-35-3 Boric acid

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CAS	Name	Proportion
14025-21-9	Ethylenediaminetetraacetic acid, zinc	7%
10043-35-3	Boric acid ☠ Toxic to reproduction 1A, H360	7%
7631-95-0	Sodium molybdate	1%

## 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, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Inhalation:

**Symptoms Caused by Exposure:**

Skin Contact: May cause skin dryness.

Eye Contact: Dust may cause transient eye irritation.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water spray, carbon dioxide, foam or dry agent.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon and nitrogen.

**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.

## 7. HANDLING AND STORAGE

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**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 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 extreme temperatures.

## 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:**

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

PVC, PVA, nitrile, neoprene, rubber or vinyl 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.

**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:**

Microgranule

**Colour:**

White

**Odour:**

Odourless

**Odour Threshold:**

Not determined

**pH-Value:**

7-8 (1% solution)

**Melting point / Melting range:**

No information available

**Initial Boiling Point / Boiling Range:**

Not applicable

**Flash Point:**

Not applicable

**Flammability:**

Product is not flammable

**Auto-ignition Temperature:****Decomposition Temperature:**

Not determined

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**Explosion Limits:**

<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable
<b>Relative Density at 20 °C:</b>	650 kg/m <sup>3</sup>
<b>Vapour Density:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Solubility in Water:</b>	100 g/L
<b>Partition Coefficient (n-octanol/water):</b>	Not determined

## 10. STABILITY AND REACTIVITY

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

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

**Conditions to Avoid:** Extreme temperatures.

**Incompatible Materials:** Contact with steel or carbon may produce hydrogen.

**Hazardous Decomposition Products:** Oxides of carbon and nitrogen.

## 11. TOXICOLOGICAL INFORMATION

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:**

10043-35-3 Boric acid

Oral: LD<sub>50</sub> 2660 mg/kg (rat)Inhalation: LD<sub>50</sub> 0.16 mg/L/4hr (rat)**Acute Health Effects**

**Inhalation:** No adverse health effects expected.

**Skin:** May cause skin dryness.

**Eye:** Dust may cause transient eye irritation.

**Ingestion:** Ingestion is not considered a potential route of exposure.

**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:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:**

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May damage fertility or the unborn child.

Boric acid is classified by Safe Work Australia as Toxic to Reproduction Category 2.

**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 information available

**Existing Conditions Aggravated by Exposure:** No information available

**Additional toxicological information:**

Boric acid may cause respiratory irritation, nausea and headache, CNS system effects, diarrhoea and vomiting. May impair fertility; may cause harm to the unborn child and cause adverse liver and kidney effects.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No information available

**Aquatic toxicity:** No information available

**Persistence and Degradability:** Biodegradable

**Bioaccumulative Potential:** No information available

**Mobility in Soil:** No information available

**Other adverse effects:** No 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

**Transport Information**

**U.N. Number:** Not regulated

**U.N. Proper Shipping Name:** Not regulated

**Dangerous Goods Class:** Not regulated

**Packing Group:** Not regulated

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## 15. REGULATORY INFORMATION

### Regulatory Information:

#### Australian Inventory of Chemical Substances:

10043-35-3 Boric acid

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

## 16. OTHER INFORMATION

Date of Preparation or Last Revision: 17.01.2023

### 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)

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)

### 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 - December 2011"

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