

### SECTION 1: Product identifier

#### 1.1. GHS Product identifier

Product form : Mixture  
Product name : Rapisol ZBM  
Product code : 445840

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

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

#### 1.4. Details of manufacturer or importer

##### Supplier

Azelis Australia Pty Ltd  
Suites 217-219  
117 Old Pittwater Road, Brookvale, NSW 2100  
Australia  
Phone: +61 0299392188  
Fax: +61 0299392799  
e-mail: info@azelis.com.au

#### 1.5. Emergency phone number

Emergency number : 1800 127 406 (24 h, Australia) | +64 4 917 9888 (24 h, Worldwide)  
CareChem 24x7 : EUROPE: +44 1235 239670 | USA: +1 202 464 2554 | CANADA - +1 800 579 7421 (Toll Free) | ASIA - +65 3158 1074 | MOROCCO - +44 1235 239671 | REST OF THE WORLD - +44 1865 407333 (English only)

### SECTION 2: Hazard identification

#### 2.1. Classification of the hazardous chemical

##### Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Reproductive toxicity, Category 1B H360

#### 2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :



Health hazard

Signal word (GHS AU) : Danger  
Contains : Boric acid (7 – 7.6 %)  
Hazard statements (GHS AU) : H360 - May damage fertility or the unborn child  
Precautionary statements (GHS AU) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P405 - Store locked up.  
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

# Rapisol ZBM

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition and information on ingredients

Comments : Product Type: Agricultural fertiliser (WG).

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
Ethylenediaminetetraacetic acid, zinc	14025-21-9	7 – 7.6	Not classified
Boric acid	10043-35-3	7 – 7.6	Repr. 1B, H360
Sodium molybdate	7631-95-0	1 – 1.6	Not classified

### Specific concentration limits:

Name	Product identifier	Specific concentration limits (Conc. % (% w/w))
Boric acid	CAS-No.: 10043-35-3	(5.5 ≤ C ≤ 100) Repr. 1B, H360

## SECTION 4: First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures after inhalation : If inhaled, remove to fresh air. Get medical attention if symptoms occur.  
First-aid measures after 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.  
First-aid measures after 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.  
First-aid measures after ingestion : If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

### 4.2. Symptoms caused by exposure

Symptoms/effects : Skin Contact: May cause skin dryness.  
Eye Contact: Dust may cause transient eye irritation.

### 4.3. Medical attention and special treatment

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide. Foam. Dry Agent.

### 5.2. Specific hazards arising from the chemical

General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.  
Hazardous decomposition products in case of fire : Toxic fumes may be released. Hazardous combustion products include oxides of carbon and nitrogen.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

# Rapisol ZBM

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective clothing. When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Wear approved dust/particulate filter respirator and full protective clothing.

Emergency procedures : Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

In the event of a major spill, prevent spillage from entering drains or water courses. Avoid release to the environment.

#### 6.3. Methods and materials for containment and cleaning up

Methods for 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.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 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.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store in a cool, dry and well-ventilated area. Keep container tightly closed when not in use. Protect from extreme temperatures.

Incompatible materials : Contact with steel or carbon may produce hydrogen.

### SECTION 8: Exposure controls and personal protection

#### 8.1. Control parameters - exposure standards

No additional information available

#### 8.2. Monitoring methods

No additional information available

# Rapisol ZBM

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

### 8.3. Engineering controls

Appropriate engineering controls : Ensure adequate ventilation of the working area. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### 8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Wear recommended personal protective equipment. Protective clothing. Gloves. Safety glasses. Dust formation: dust mask. Boots. Wear respiratory protection.

Hand protection : Protective gloves. 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.

Eye protection : Safety glasses. Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

Skin and body protection : Wear suitable protective clothing. 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.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. 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.

#### Personal protective equipment symbol(s)



Environmental exposure controls : Avoid release to the environment.

Other information : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands before breaks and immediately after handling the product. Take off immediately all contaminated clothing and wash it before reuse.

## SECTION 9: Physical and chemical properties

Physical state : Solid

Appearance : microgranule.

Colour : WHITE

Odour : odourless

Odour threshold : No data available

pH : 8 – 9

pH solution concentration : 1 %

Relative evaporation rate (butylacetate=1) : No data available

Melting point / Freezing point : Freezing point: Not applicable

Boiling point : No data available

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Flammability : Product is not flammable

Vapour pressure : No data available

Relative density : No data available

Density : Relative density: 650 (@ 20 °C)

Solubility : Water: 100 g/l

Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : Not applicable

Explosive properties : No data available

Explosive limits : Not applicable

Minimum ignition energy : No data available

# Rapisol ZBM

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

Fat solubility : No data available

### SECTION 10: Stability and reactivity

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.  
Chemical stability : Stable at ambient temperature and under normal conditions of use.  
Possibility of hazardous reactions : Hazardous polymerisation will not occur.  
Conditions to avoid : extreme temperatures.  
Incompatible materials : Contact with steel or carbon may produce hydrogen.  
Hazardous decomposition products : Oxides of carbon and nitrogen.

### SECTION 11: Toxicological information

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)  
Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: 8 – 9  
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: 8 – 9  
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)  
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
Reproductive toxicity : May damage fertility or the unborn child.  
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)  
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)  
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

#### Rapisol ZBM

Viscosity, kinematic	Not applicable
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### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)  
Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

#### 12.2. Persistence and degradability

##### Rapisol ZBM

Persistence and degradability	Biodegradable.
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##### Ethylenediaminetetraacetic acid, zinc (14025-21-9)

Persistence and degradability	No additional information available.
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##### Sodium molybdate (7631-95-0)

Persistence and degradability	No additional information available.
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##### Boric acid (10043-35-3)

Persistence and degradability	No additional information available.
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#### 12.3. Bioaccumulative potential

No additional information available

# Rapisol ZBM

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)  
Other adverse effects : No additional information available

Rapisol ZBM	
Fluorinated greenhouse gases	False
Ethylenediaminetetraacetic acid, zinc (14025-21-9)	
Fluorinated greenhouse gases	False
Sodium molybdate (7631-95-0)	
Fluorinated greenhouse gases	False
Boric acid (10043-35-3)	
Fluorinated greenhouse gases	False

## SECTION 13: Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. 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.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal.

## SECTION 14: Transport information

In accordance with ADG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN Proper Shipping Name

Proper Shipping Name (ADG) : Not regulated  
Proper Shipping Name (IMDG) : Not regulated  
Proper Shipping Name (IATA) : Not regulated

### 14.3. Transport hazard class(es)

**ADG**  
Transport hazard class(es) (ADG) : Not regulated

**IMDG**  
Transport hazard class(es) (IMDG) : Not regulated

**IATA**  
Transport hazard class(es) (IATA) : Not regulated

### 14.4. Packing group

Packing group (ADG) : Not regulated  
Packing group (IMDG) : Not regulated  
Packing group (IATA) : Not regulated

### 14.5. Environmental hazards

Other information : No supplementary information available

# Rapisol ZBM

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

### 14.6. Special precautions for user

Specific storage requirement : No data available  
Shock sensitivity : No data available

### 14.7. Additional information

Other information : No supplementary information available

#### Transport by road and rail

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

### 14.8. Hazchem or Emergency Action Code

Hazchem Code : Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations

#### Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AIIC) status : All the chemicals contained in this product are listed on the AIIC (Australian Inventory of Industrial Chemicals)

#### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Relevant Poisons Schedule number : Schedule 5  
Other information on relevant regulations : The product is regulated under National and State Government Agricultural bodies and is exempted from APVMA Registration.

### 15.2. International agreements

No additional information available

## SECTION 16: Other information

### Classification

Repr. 1B	H360
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### Full text of H-statements

Repr. 1B	Reproductive toxicity, Category 1B
H360	May damage fertility or the unborn child

Safety Data Sheet (SDS), Australia

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.