

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 23.12.2025  
Product: **MetazaGUARD**

Version: 5.0

(30660967/SDS\_CPA\_AU/EN)

Date of print: 27.04.2026

## 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
MetazaGUARD

Use: crop protection product, herbicide

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)  
Level 23, 40 City Road, Southbank  
Victoria 3006, AUSTRALIA  
Telephone: +61 3 8855-6600

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]  
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

## 2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat.4 (oral)  
Carcinogenicity: Cat.2  
Hazardous to the aquatic environment - acute: Cat.1  
Hazardous to the aquatic environment - chronic: Cat.1

Label elements and precautionary statement:

Pictogram:



Signal Word:  
Warning

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**Hazard Statement:**

H302 Harmful if swallowed.  
H351 Suspected of causing cancer.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statement:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.

**Precautionary Statements (Prevention):**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves, protective clothing and eye protection or face protection.  
P264 Wash contaminated body parts thoroughly after handling.

**Precautionary Statements (Response):**

P308 + P313 IF exposed or concerned: Get medical attention.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.  
P391 Collect spillage.

**Precautionary Statements (Storage):**

P405 Store locked up.

**Precautionary Statements (Disposal):**

P501 Dispose of contents and container to hazardous or special waste collection point.

**Other hazards which do not result in classification:**

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

May produce an allergic reaction. Contains:

Metazachlor, 2-methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one

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### 3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

herbicide, suspension concentrate (SC)

**Hazardous ingredients**

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## Metazachlor

Content (W/W): 43.55 %  
CAS Number: 67129-08-2

Acute Tox.: Cat. 5 (oral)  
Skin Sens.: Cat. 1B  
Carc.: Cat. 2  
Aquatic Acute: Cat. 1  
Aquatic Chronic: Cat. 1  
M-factor acute: 100  
M-factor chronic: 100

## Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt

Content (W/W): < 5 %  
CAS Number: 102980-04-1

Eye Dam./Irrit.: Cat. 2A  
Aquatic Acute: Cat. 3  
Aquatic Chronic: Cat. 3

## 1,2-benzisothiazol-3(2H)-one

Content (W/W): < 0.005 %  
CAS Number: 2634-33-5

Acute Tox.: Cat. 2 (Inhalation - dust)  
Acute Tox.: Cat. 4 (oral)  
Skin Irrit.: Cat. 2  
Eye Dam.: Cat. 1  
Skin Sens.: Cat. 1A  
Aquatic Acute: Cat. 1  
Aquatic Chronic: Cat. 1  
M-factor acute: 1  
M-factor chronic: 1

## 2-methyl-2H-isothiazol-3-one

Content (W/W): < 0.005 %  
CAS Number: 2682-20-4

Acute Tox.: Cat. 2 (Inhalation - dust)  
Acute Tox.: Cat. 3 (oral)  
Acute Tox.: Cat. 3 (dermal)  
Skin Corr.: Cat. 1B  
Eye Dam.: Cat. 1  
Skin Sens.: Cat. 1A  
Aquatic Acute: Cat. 1  
Aquatic Chronic: Cat. 1  
M-factor acute: 10  
M-factor chronic: 1

## propane-1,2-diol

Content (W/W): < 10 %  
CAS Number: 57-55-6

## Metazachlor

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Content (W/W): 43.5 %  
CAS Number: 67129-08-2

Acute Tox.: Cat. 5 (oral)  
Skin Sens.: Cat. 1B  
Carc.: Cat. 2  
Aquatic Acute: Cat. 1  
Aquatic Chronic: Cat. 1  
M-factor acute: 100  
M-factor chronic: 100

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## 4. First-Aid Measures

General advice:

| Remove contaminated clothing.

If inhaled:

| Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

| Wash thoroughly with soap and water

On contact with eyes:

| Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

| Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

| Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

Specific hazards:

carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, halogenated compounds, sulfur oxides, silicon oxides

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

### Personal precautions:

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

### Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

### Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

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## 7. Handling and Storage

### Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

### Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Protect from temperatures below: -5 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

propane-1,2-diol, 57-55-6;

TWA value 474 mg/m<sup>3</sup> ; 150 ppm (AU NOEL), Total vapour and particulates  
TWA value 10 mg/m<sup>3</sup> (AU NOEL), Particulate

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metazachlor, 67129-08-2;  
TWA value 1.13 mg/m<sup>3</sup> (BASF recomm. occupational exposure limit)

#### Personal protective equipment

Respiratory protection:  
Respiratory protection not required.

Hand protection:  
Chemical resistant protective gloves

Eye protection:  
Eye protection not required.

Body protection:  
Standard work clothes and shoes.

General safety and hygiene measures:  
Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Wash contaminated clothing before reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Before eating, drinking, or smoking, wash face and hands with soap and water.

## 9. Physical and Chemical Properties

Form:	liquid	
Colour:	white to pink	
Odour:	faint odour, fruity	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
pH value:	approx. 5 - 8 (approx. 20 °C) (measured with the undiluted substance)	(pH Meter)
crystallization temperature:	approx. -8 °C	(measured)
boiling temperature:	approx. 100 °C (1,013 hPa)	(measured)
Flash point:	No flash point - Measurement made up to the boiling point.	(Directive 92/69/EEC, A.9)
Evaporation rate:	not applicable	
Flammability (solid/gas):	not highly flammable	(Directive 92/69/EEC, A.12)

## Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

## Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

## Ignition temperature:

552 °C

(Directive 92/69/EEC, A.15)

## Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

## Explosion hazard:

not explosive

(Directive 92/69/EEC, A.14)

## Fire promoting properties:

not fire-propagating

(Directive 2004/73/EC, A.21)

## Vapour pressure:

approx. 23 hPa  
(20 °C)

Information applies to the solvent.

## Density:

approx. 1.15 g/cm<sup>3</sup>  
(20 °C)

approx. 1.14 g/cm<sup>3</sup>  
(55 °C)

(Directive 92/69/EEC, A.3)

## Relative vapour density (air):

not applicable

## Solubility in water:

dispersible

## Partitioning coefficient n-octanol/water (log Pow):

The statements are based on the properties of the individual components.

## Information on: Metazachlor

Partitioning coefficient n-octanol/water (log Pow): 2.13  
(22 °C)

## Viscosity, dynamic:

approx. 82 mPa.s  
(20 °C, 100 1/s)

(OECD Guideline 114)

## Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

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## 10. Stability and Reactivity

Conditions to avoid:  
See SDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:  
strong oxidizing agents, strong bases, strong acids

Hazardous reactions:  
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:  
The product is stable if stored and handled as prescribed/indicated.

Reactivity:  
No hazardous reactions if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Routes of exposure

#### Acute oral toxicity

Experimental/calculated data:  
LD50rat (oral): > 500 - < 2,000 mg/kg (OECD Guideline 423)

#### Acute inhalation toxicity

LC50 rat (by inhalation): > 6.2 mg/l 4 h  
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. An aerosol was tested.

#### Acute dermal toxicity

LD50 rat (dermal): > 4,000 mg/kg  
No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Assessment of acute toxicity

Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

#### Symptoms

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.  
(Further) symptoms and / or effects are not known so far

## Irritation

Assessment of irritating effects:

Not irritating to eyes and skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

## Respiratory/Skin sensitization

Assessment of sensitization:

No sensitizing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing.

## Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

## Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Metazachlor

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests.  
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## Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

## Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

## Specific target organ toxicity (single exposure)

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Metazachlor

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs. Based on available data, the classification criteria are not met.

### **Aspiration hazard**

| not applicable

### **Other relevant toxicity information**

Misuse can be harmful to health.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

| Very toxic to aquatic life with long lasting effects.

Aquatic plants:

ErC50 (72 h) 0.075 mg/l, Ankistrodesmus bibrainus

EC10 (72 h) 0.005 mg/l, Ankistrodesmus bibrainus

Information on: Metazachlor

Toxicity to fish:

LC50 (96 h) 8.5 mg/l, Oncorhynchus mykiss

Information on: Metazachlor

Aquatic invertebrates:

EC50 (48 h) 33.7 mg/l, Daphnia magna

Information on: Metazachlor

Chronic toxicity to fish:

No observed effect concentration (28 d) 2.15 mg/l, Oncorhynchus mykiss

Information on: Metazachlor  
Chronic toxicity to aquatic invertebrates:  
No observed effect concentration (21 d), 2.56 mg/l, Daphnia magna  
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### **Mobility**

Assessment transport between environmental compartments:  
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Metazachlor  
Assessment transport between environmental compartments:  
Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.  
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### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):  
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Metazachlor  
Assessment biodegradation and elimination (H<sub>2</sub>O):  
Not readily biodegradable (by OECD criteria).  
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### **Bioaccumulation potential**

Assessment bioaccumulation potential:  
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Metazachlor  
Assessment bioaccumulation potential:  
No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).  
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### **Additional information**

Other ecotoxicological advice:  
Do not discharge product into the environment without control.

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## **13. Disposal Considerations**

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:  
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## 14. Transport Information

### Domestic transport:

UN number or ID number: UN 3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (METAZACHLOR)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
  
Special precautions for user: None known

### Further information

Hazchem Code:3Z  
IERG Number:47

### Sea transport

IMDG

UN number or ID number: UN 3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (METAZACHLOR)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Marine pollutant: YES  
Special precautions for user: EmS: F-A; S-F

### Air transport

IATA/ICAO

UN number or ID number: UN 3082  
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (METAZACHLOR)  
Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: yes  
Special precautions for user: None known

### Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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**Further information**

Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 kg(L) or IBCs.

**Further information**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

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## 15. Regulatory Information

**Other regulations**

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

APVMA Approval No: 80664

**Registration status:**

AICIS, AU

Contains non-registered, non-listed substance., Individual registration may be required., Please contact your BASF representative.

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## 16. Other Information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.