

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 07.09.2023  
Product: **Maxtima® Fungicide**

Version: 3.0

(30725290/SDS\_CPA\_AU/EN)

Date of print: 12.11.2024

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

**Product name:**  
Maxtima® Fungicide

Use: crop protection product, fungicide

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:

Hazardous to the aquatic environment - acute: Cat.2  
Hazardous to the aquatic environment - chronic: Cat.1

Label elements and precautionary statement:

Pictogram:



Signal Word:  
Warning

Hazard Statement:

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H401 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 (Response):**

P391 Collect spillage.

**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:**

(2RS)-2-[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]-1-(1H-1,2,4-triazol-1-yl)propan-2-ol;  
mefentrifluconazole, 1,2-benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one  
and 2-methyl-2H-isothiazol-3-one (3:1)

### 3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

crop protection product, fungicide

**Hazardous ingredients**

1H-1,2,4-Triazole-1-ethanol,  $\alpha$ -[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]- $\alpha$ -methyl-

Content (W/W): 34.93 %	Skin Sens.: Cat. 1
CAS Number: 1417782-03-6	Aquatic Acute: Cat. 1
	Aquatic Chronic: Cat. 1
	M-factor acute: 1
	M-factor chronic: 1

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

Content (W/W): < 3 %	Eye Dam./Irrit.: Cat. 2A
CAS Number: 102980-04-1	Aquatic Acute: Cat. 3
	Aquatic Chronic: Cat. 3

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts

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<p>Content (W/W): &lt; 3 %            CAS Number: 68425-94-5</p>	<p>Eye Dam./Irrit.: Cat. 2A            Aquatic Acute: Cat. 3            Aquatic Chronic: Cat. 3</p>
<p><b>1,2-benzisothiazol-3(2H)-one</b>            Content (W/W): &lt; 0.05 %            CAS Number: 2634-33-5</p>	<p>Acute Tox.: Cat. 4 (oral)            Skin Corr./Irrit.: Cat. 2            Eye Dam./Irrit.: Cat. 1            Skin Sens.: Cat. 1            Aquatic Acute: Cat. 1            Aquatic Chronic: Cat. 1            M-factor acute: 1            M-factor chronic: 1</p>
<p>bronopol            Content (W/W): &lt; 0.05 %            CAS Number: 52-51-7</p>	<p>Acute Tox.: Cat. 3 (Inhalation - dust)            Acute Tox.: Cat. 3 (oral)            Acute Tox.: Cat. 4 (dermal)            Skin Corr./Irrit.: Cat. 2            Eye Dam./Irrit.: Cat. 1            STOT SE: Cat. 3 (irr. to respiratory syst.)            Aquatic Acute: Cat. 1            Aquatic Chronic: Cat. 1            M-factor acute: 10            M-factor chronic: 1</p>
<p>mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)            Content (W/W): &lt; 0.0015 %            CAS Number: 55965-84-9</p>	<p>Acute Tox.: Cat. 3 (oral)            Acute Tox.: Cat. 2 (Inhalation - mist)            Acute Tox.: Cat. 2 (dermal)            Skin Corr./Irrit.: Cat. 1C            Eye Dam./Irrit.: Cat. 1            Skin Sens.: Cat. 1A            Aquatic Acute: Cat. 1            Aquatic Chronic: Cat. 1            M-factor acute: 100            M-factor chronic: 100</p>

#### 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, dry powder, foam, carbon dioxide

Specific hazards:

carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, hydrogen bromide, nitrogen oxides, sulfur oxides, halogenated compounds, silica compounds, Phosphorus compounds

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:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. 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.

Storage stability:

Storage duration: 24 Months

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

No substance specific occupational exposure limits known.

### Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**General safety and hygiene measures:**

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

Form:	liquid, suspension
Colour:	cream, almost white
Odour:	odourless
Odour threshold:	not applicable, odour not perceivable
pH value:	approx. 6 - 8 (20 °C)
Melting point:	approx. 0 °C Information applies to the solvent.
Boiling point:	approx. 95 °C
Flash point:	No flash point - Measurement made up to the boiling point.
Evaporation rate:	not applicable
Flammability (solid/gas):	not applicable
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:	652 °C
Thermal decomposition:	160 °C , 20 J/g (onset temperature)  300 °C , 90 kJ/kg (onset temperature)  Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating

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Vapour pressure: approx. 23.4 hPa  
(20 °C)  
Information applies to the solvent.

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

Relative vapour density (air):  
not applicable

Solubility in water: dispersible  
Partitioning coefficient n-octanol/water (log Pow):  
not applicable

Viscosity, dynamic: approx. 98 mPa.s  
(20 °C, 100 1/s)

**Other Information:**

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

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## 10. Stability and Reactivity

**Conditions to avoid:**

See SDS section 7 - Handling and storage.

Thermal decomposition: 160 °C, 20 J/g  
(onset temperature)

Thermal decomposition: 300 °C, 90 kJ/kg  
(onset temperature)

Thermal decomposition: Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

**Substances to avoid:**

strong acids, strong bases, strong oxidizing agents

**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): > 2,000 mg/kg  
No mortality was observed.

### Acute inhalation toxicity

LC50 rat (by inhalation): > 5.48 mg/l 4 h  
No mortality was observed.

### Acute dermal toxicity

LD50 rat (dermal): > 5,000 mg/kg  
No mortality was observed.

### Assessment of acute toxicity

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

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Not irritating to eyes and skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

### Respiratory/Skin sensitization

Assessment of sensitization:

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

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: 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.

Information on: bronopol

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was mutagenic in various cell culture test systems; however, these results could not be confirmed in tests with mammals.

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## Carcinogenicity

Assessment of carcinogenicity:

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

## 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: (2RS)-2-[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]-1-(1H-1,2,4-triazol-1-yl)propan-2-ol; mefentrifluconazole

Assessment of repeated dose toxicity:

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

Information on: mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation. Based on available data, the classification criteria are not met.

Information on: bronopol

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

## 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. Toxic to aquatic life.

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

Toxicity to fish:

LC50 (96 h) 1.14 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:

EC50 (48 h) 2.56 mg/l, *Daphnia magna*

Aquatic plants:

EC50 (72 h) 29.32 mg/l, *Pseudokirchneriella subcapitata*

EC10 (72 h) 1.82 mg/l, *Pseudokirchneriella subcapitata*

Information on: (2RS)-2-[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]-1-(1H-1,2,4-triazol-1-yl)propan-2-ol; mefentrifluconazole

Chronic toxicity to fish:

No observed effect concentration (36 d) 0.027 mg/l, *Brachydanio rerio*  
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Information on: (2RS)-2-[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]-1-(1H-1,2,4-triazol-1-yl)propan-2-ol; mefentrifluconazole

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d), 0.01 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: (2RS)-2-[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]-1-(1H-1,2,4-triazol-1-yl)propan-2-ol; mefentrifluconazole

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.  
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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: (2RS)-2-[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]-1-(1H-1,2,4-triazol-1-yl)propan-2-ol; mefentrifluconazole

### 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: (2RS)-2-[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]-1-(1H-1,2,4-triazol-1-yl)propan-2-ol; mefentrifluconazole

Bioaccumulation potential:

Bioconcentration factor: 385

Does not accumulate in organisms.

### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## 13. Disposal Considerations

Must be sent to a suitable incineration plant, observing 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. (MEFENTRIFLUCONAZOLE)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

### Further information

Hazchem Code:3Z

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**Sea transport**

## IMDG

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

**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.

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**15. Regulatory Information****Other regulations**

To avoid risks to man and the environment, comply with the instructions for use.

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

APVMA Approval No.: 90440

**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.