

# Safety data sheet

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BASF Safety data sheet

Date / Revised: 31.05.2023

Product: **Xzemplar® Fungicide**

Version: 3.0

(30603937/SDS\_CPA\_AU/EN)

Date of print: 01.06.2023

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

**Product name:**  
Xzemplar® Fungicide

Use: crop protection product, fungicide

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)

Level 12, 28 Freshwater Place Southbank

Victoria 3006, AUSTRALIA

Telephone: +61 3 8855-6600

Telefax number: +61 3 8855-6511

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:

Reproductive toxicity: Cat.Additional category for effects on or via lactation.

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:**

H362 May cause harm to breast-fed children.  
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):**

P260 Do not breathe dust or mist.  
P263 Avoid contact during pregnancy and while nursing.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash contaminated body parts thoroughly after handling.

**Precautionary Statements (Response):**

P391 Collect spillage.  
P308 + P313 IF exposed or concerned: Get medical attention.

**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:  
1,2-benzisothiazol-3(2H)-one

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### 3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

crop protection product, fungicide, suspension concentrate (SC)

Hazardous ingredients

Fluxapyroxad

Content (W/W): 26.55 %  
CAS Number: 907204-31-3

Repr.: Cat. Add. cat. lact.  
Aquatic Acute: Cat. 1  
Aquatic Chronic: Cat. 1  
M-factor acute: 1  
M-factor chronic: 1

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

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Content (W/W): < 5 % CAS Number: 68425-94-5	Eye Dam./Irrit.: Cat. 2A Aquatic Acute: Cat. 3 Aquatic Chronic: Cat. 3
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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
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bronopol

Content (W/W): < 0.05 % CAS Number: 52-51-7	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
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1,2-benzisothiazol-3(2H)-one

Content (W/W): < 0.01 % CAS Number: 2634-33-5	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
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propane-1,2-diol

Content (W/W): < 15 % CAS Number: 57-55-6	
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#### 4. First-Aid Measures

General advice:

Immediately 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.

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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, carbon dioxide, foam, dry powder

Specific hazards:

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

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.

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Dispose of absorbed material in accordance with 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: 60 Months

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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

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

TWA value 10 mg/m<sup>3</sup> (OEL (AU)), Particulate

Fluxapyroxad, 907204-31-3;

TWA value 0.5 mg/m<sup>3</sup> (BASF recomm. occupational exposure limit)

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

**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	
Colour:	off-white, pink tint	
Odour:	faint odour, fruity	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
pH value:	approx. 6 - 8 (1 %(m), 20 °C)	(pH Meter)
crystallization temperature:	approx. -5.5 °C	(measured)
Boiling point:	approx. 100 °C Information applies to the solvent.	
Flash point:	> 100 °C No flash point - Measurement made up to the indicated temperature, pilot light extinguishes.	(Directive 92/69/EEC, A.9, closed cup)
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:	> 650 °C	(Directive 92/69/EEC, A.15)
Thermal decomposition:	305 °C , 90 kJ/kg (onset temperature)	(DSC (OECD 113))
	395 °C , 20 kJ/kg (onset temperature)	(DSC (OECD 113))
Explosion hazard:	Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.	
Fire promoting properties:	not explosive not fire-propagating	(Directive 2004/73/EC, A.21)
Vapour pressure:	approx. 23 hPa (20 °C) Information applies to the solvent.	
Density:	approx. 1.13 g/cm <sup>3</sup> (approx. 20 °C)	(OECD Guideline 109)
Relative vapour density (air):	not applicable	
Solubility in water:	dispersible	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Viscosity, dynamic:	39 mPa.s (20 °C, 100 1/s)	(OECD 114)

**Other Information:**

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

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## 10. Stability and Reactivity

**Conditions to avoid:**

See SDS section 7 - Handling and storage.

Thermal decomposition:	305 °C, 90 kJ/kg (DSC (OECD 113)) (onset temperature)
Thermal decomposition:	395 °C, 20 kJ/kg (DSC (OECD 113)) (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 (OECD Guideline 423)  
No mortality was observed.

#### Acute inhalation toxicity

LC50 rat (by inhalation): > 5.9 mg/l 4 h (OECD Guideline 403)  
No mortality was observed. An aerosol with respirable particles was tested.

#### Acute dermal toxicity

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)  
No mortality was observed.

#### Assessment of acute toxicity

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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

Experimental/calculated data:

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

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)



## 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:

Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)

## 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.

## Carcinogenicity

Assessment of carcinogenicity:

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

Information on: Fluxapyroxad

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests. The effect is caused by an animal specific mechanism that has no human counter part.

## Reproductive toxicity

Assessment of reproduction toxicity:

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

Information on: Fluxapyroxad

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. May cause harm to children via breast-feeding.

## Developmental toxicity

Assessment of teratogenicity:

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

## 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: Fluxapyroxad

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

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.

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

Information on: Fluxapyroxad

Toxicity to fish:

LC50 (96 h) 0.29 mg/l, *Cyprinus carpio* (Fish test acute, semistatic)

LC50 (96 h) 0.546 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

LC50 (96 h) 1.15 mg/l, *Lepomis macrochirus* (OECD Guideline 203, static)

LC50 (96 h) 0.466 mg/l, *Pimephales promelas* (OECD Guideline 203, static)

Information on: Fluxapyroxad

Aquatic invertebrates:

EC50 (48 h) 6.78 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

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Information on: Fluxapyroxad

Aquatic plants:

EC50 (72 h) 0.70 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201)

EC50 (96 h) 0.66 mg/l (growth rate), Pseudokirchneriella subcapitata

EC10 (72 h) 0.31 mg/l (growth rate), Pseudokirchneriella subcapitata

EC10 (96 h) 0.36 mg/l (growth rate), Pseudokirchneriella subcapitata

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Information on: Fluxapyroxad

Chronic toxicity to fish:

No observed effect concentration (33 d) 0.0359 mg/l, Pimephales promelas (OECD Guideline 210, Flow through.)

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Information on: Fluxapyroxad

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d), 0.5 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

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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: Fluxapyroxad

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: Fluxapyroxad

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: Fluxapyroxad

Bioaccumulation potential:

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Bioconcentration factor: 36 - 37 (28 d), Lepomis macrochirus (OECD-Guideline 305)  
Does not accumulate in organisms.  
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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 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. (FLUXAPYROXAD)  
Transport hazard class(es): 9, EHS  
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. (FLUXAPYROXAD)  
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

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

**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)

**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**

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

APVMA Approval No: 90594

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

**Registration status:**

AICS, AU                                        blocked / not listed

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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.

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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.