

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 12.06.2019  
Product: **Merivon® Fungicide**

Version: 1.0

(30552051/SDS\_CPA\_AU/EN)

Date of print 12.06.2019

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

### Merivon® 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]

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## 2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat. 3 (oral)

Acute toxicity: Cat. 4 (Inhalation - mist)

Skin corrosion/irritation: Cat. 3

Carcinogenicity: Cat. 2

Specific target organ toxicity — single exposure: Cat. 3 (irritating to respiratory system)

Hazardous to the aquatic environment - acute: Cat. 1

Hazardous to the aquatic environment - chronic: Cat. 1

Label elements and precautionary statement:

Pictogram:



Signal Word:  
 Danger

Hazard Statement:

H316	Causes mild skin irritation.
H332	Harmful if inhaled.
H301	Toxic if swallowed.
H335	May cause respiratory irritation.
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 label before use.

Precautionary Statements (Prevention):

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist or vapour.
P261	Avoid breathing mist.
P264	Wash contaminated body parts thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/clothing/eye protection.

Precautionary Statements (Response):

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P311	IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P391	Collect spillage.
P332 + P313	If skin irritation occurs: Get medical advice/attention.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary Statements (Disposal):

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

### 3. Composition/information on ingredients

#### Chemical nature

crop protection product, fungicide, suspension concentrate (SC)

#### Hazardous ingredients

##### Fluxapyroxad

Content (W/W): 21.4 %

CAS Number: 907204-31-3

Repr.: Cat. Add. cat. lact.

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 1

##### Pyraclostrobin

Content (W/W): 21.3 %

CAS Number: 175013-18-0

Acute Tox.: Cat. 3 (Inhalation - mist)

Skin Corr./Irrit.: Cat. 2

STOT SE: Cat. 3 (irr. to respiratory syst.)

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 1

M-factor acute: 100

M-factor chronic: 10

### 4. First-Aid Measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

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

#### On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

#### On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### On ingestion:

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

#### Note to physician:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or 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.

## 5. Fire-Fighting Measures

Suitable extinguishing media:  
water spray, carbon dioxide, foam, dry powder

Unsuitable extinguishing media for safety reasons:  
water jet

Specific hazards:  
carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, organochloric compounds, halogenated hydrocarbons  
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. Remove contaminated clothing and protective equipment before entering eating areas.

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.

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## 8. Exposure controls and personal protection

Components with occupational exposure limits

No occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): 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: beige  
Odour: faint odour, fruity  
Odour threshold: Not determined since harmful by inhalation.

pH value: approx. 6 - 8 (pH Meter)  
(CIPAC standard water D, 1 %(m),  
20 °C)

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crystallization temperature: approx. -6.7 °C  
 Boiling point: approx. 100 °C

Flash point: No flash point - Measurement made up to the boiling point.

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: 517 °C (Directive 92/69/EEC, A.15)

Thermal decomposition: 270 °C , 320 kJ/kg (onset temperature) (DSC (OECD 113))  
 160 °C , 110 kJ/kg (onset temperature) (DSC (OECD 113))  
 410 °C , > 80 kJ/kg (onset temperature) (DSC (OECD 113))

Explosion hazard: Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.  
 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. 1.18 g/cm<sup>3</sup> (20 °C) (OECD Guideline 109)

Relative vapour density (air): approx. 0.017  
 Information based on the main components.

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

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Viscosity, dynamic: approx. 35 mPa.s (OECD 114)  
(40 °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 MSDS section 7 - Handling and storage.

Thermal decomposition: 270 °C, 320 kJ/kg (DSC (OECD 113))  
(onset temperature)

Thermal decomposition: 160 °C, 110 kJ/kg (DSC (OECD 113))  
(onset temperature)

Thermal decomposition: 410 °C, > 80 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 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.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:

Of high toxicity after single ingestion. Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): > 50 - < 300 mg/kg (OECD Guideline 423)

LC50 rat (by inhalation): 2.81 mg/l 4 h (OECD Guideline 403)

An aerosol was tested.

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)

No mortality was observed.

### Irritation

Assessment of irritating effects:  
Skin contact causes slight irritation. Not irritating to the eyes.

Experimental/calculated data:  
Skin corrosion/irritation rabbit: (OECD Guideline 404)

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

### **Respiratory/Skin sensitization**

Assessment of sensitization:  
There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:  
Buehler test guinea pig: (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. 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: 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.

Information on: Pyraclostrobin  
Assessment of carcinogenicity:  
In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.

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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.

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.

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### **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):****Assessment of STOT single:**

Causes temporary irritation of the respiratory tract.

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: Pyraclostrobin****Assessment of repeated dose toxicity:**

After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.

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**Aspiration hazard**

No aspiration hazard expected.

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

**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.

**Toxicity to fish:**

LC50 (96 h) 0.032 mg/l, *Oncorhynchus mykiss* (OECD 203; ISO 7346; 92/69/EEC, C.1, static)

**Aquatic invertebrates:**

EC50 (48 h) 0.068 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 3.56 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

EC10 (72 h) 0.44 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

## 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.

Information on: Pyraclostrobin

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

## 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).

Information on: Pyraclostrobin

Assessment biodegradation and elimination (H<sub>2</sub>O):

Not readily biodegradable (by OECD criteria).

## 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:

Bioconcentration factor: 36 - 37 (28 d), Lepomis macrochirus (OECD-Guideline 305)

Does not accumulate in organisms.

Information on: Pyraclostrobin

Bioaccumulation potential:

Bioconcentration factor: 379 - 507, Oncorhynchus mykiss (OECD-Guideline 305)

Accumulation in organisms is not to be expected.

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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:

Packing group: III  
ID number: UN 2902  
Transport hazard class(es): 6.1, EHSM  
Proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN, FLUXAPYROXAD)

#### Further information

Hazchem Code:2X  
IERG Number:34

#### Sea transport

IMDG

Packing group: III  
ID number: UN 2902  
Transport hazard class(es): 6.1, EHSM  
Marine pollutant: YES  
Proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN, FLUXAPYROXAD)

#### Air transport

IATA/ICAO

Packing group: III  
ID number: UN 2902  
Transport hazard class(es): 6.1  
Proper shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN, FLUXAPYROXAD)

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## 15. Regulatory Information

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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

APVMA Registration No: 85698

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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.