

# Safety data sheet

BASF Safety Data Sheet  
Date / Revised: 24.04.2019  
Product: **COLLISS**<sup>®</sup>

(Ref: ID no. 30275860/SDS\_CPA\_00/EN; Version 2.0)

## 1. Identification of the substance/mixture and of the company/undertaking

### Product identifier

**COLLISS**<sup>®</sup>

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: crop protection product, fungicide.

### Details of the supplier of the safety data sheet

Company:

BASF New Zealand Limited  
Level 4, 4 Leonard Isitt Drive, Auckland Airport, Auckland 2022  
P.O. Box 407, Auckland 1140  
Phone: + 64 9 255 4300  
Fax: + 64 9 255 4307  
E-mail address: reception@basf-nz.co.nz

### Emergency telephone number

National Poisons Centre: 0800 764 766  
BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)  
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

## 2. Hazards Identification

Hazard Classification:

6.7B, 9.1A



Signal Word: WARNING

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Hazard Statements:

H351 Suspected of causing cancer  
H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements (Prevention):

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  
P202 Do not handle until all safety precautions have been read and understood  
P281 Use personal protective equipment as required  
P405 Store locked up

Precautionary Statements (Response):

IF exposed or concerned Get medical advice/attention.  
Collect spillage

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

Hazard determining component(s) for labelling: BOSCALID, KRESOXIM-METHYL

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

#### Mixtures

##### Chemical nature

crop protection product, fungicide, suspension concentrate (SC)

##### Hazardous ingredients

boscalid (ISO); 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-nicotinamide

Content (W/W): 18.2 %

CAS Number: 188425-85-6

Aquatic Acute 2

Aquatic Chronic 2

H401, H411

Kresoxim-methyl (ISO); methyl (E)-2-methoxyimino-[2-(o-tolylloxymethyl)phenyl]acetate

Content (W/W): 9,1 %

CAS Number: 143390-89-0

EC-Number: 417-880-0

REACH registration number: 01-

2119452496-32

INDEX-Number: 607-310-00-0

Carc. 2

Aquatic Acute 1

Aquatic Chronic 1

M-factor acute: 10

M-factor chronic: 10

H351, H400, H410

Propane-1,2-diol

Content (W/W): < 5 %

CAS Number: 57-55-6

EC-Number: 200-338-0

For the classifications not written out in full in this section the full text can be found in section 16.

### 4. First-Aid Measures

#### 4.1 Description of first aid measures

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, consult an eye specialist.

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

#### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

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

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## **5. Fire-Fighting Measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:  
Water spray, foam, carbon dioxide, dry powder.

Unsuitable extinguishing media for safety reasons:  
Carbon dioxide

### **5.2. Special hazards arising from the substance or mixture**

Carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, organochloric compounds.  
The substances/groups of substances mentioned can be released in case of fire.

### **5.3. Advice for fire-fighters**

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**

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

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

### **6.2 Environmental precautions**

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

### **6.3 Methods and material for containment and cleaning 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 labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

## 6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

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

#### CERTIFIED HANDLER REQUIREMENTS:

Any person purchasing, handling or disposing of this product must be suitably qualified. Refer to the product label for handling precautions and directions for use.

#### Protection against fire and explosion:

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

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

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

<b>AGGREGATE STORAGE VOLUME THRESHOLDS:</b> When stored with substances of the same hazard the aggregate quantity must be considered. For full details refer to the current standard NZS8409 Management of Agrichemicals or the HSNO Regulations.						
<b>Location Certificate*:</b>	<b>Hazardous Atmosphere Zone*:</b>	<b>Fire Extinguishers:</b>	<b>Signage [Hazard Class &amp; Emergency Action]:</b>	<b>Emergency Information:</b>	<b>Emergency Response Plan:</b>	<b>Secondary Containment:</b>
NA	NA	NA	100 litres	1 litre	100 litres	100 litres
* Note: Farms $\geq$ 4 ha are exempt but with controls						
<b>DO NOT STORE OR LOAD WITH:</b> Class 1 Explosive			<b>SEGREGATE FROM:</b> Foodstuffs and Food Containers			
<b>Segregation:</b> In store separate by at least 5 metres, on transport separate by at least 3 metres, in both cases horizontally. On vehicles a segregation device may be used: Check the Land Transport Rule Dangerous Goods, Rule 45001 for additional information. Sea transport may require additional segregation. Refer to NZS5433 Sea Segregation for details.						

#### RECORD KEEPING

Records of use must be kept if more than 3 kg is applied within 24 hrs

NOTE: Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409.

### 7.3 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Components with workplace control parameters

57-55-6: Propane-1,2-diol

143390-89-0: methyl (E)-2-methoxyimino-2-(2-(o-tolyloxymethyl)phenyl)acetate

## 8.2 Exposure controls

### 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 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) and other.

#### 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.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	white
Odour:	aromatic, faint odour
Odour threshold:	Not determined due to potential health hazard by inhalation.
pH value:	approx. 5 – 7 (1 %(m), 20 °C) (measured with the undiluted substance)
crystallization temperature:	-3.3 °C
Boiling point:	approx. 100 °C
Flash point:	No flash point - Measurement made up to the boiling point.
Evaporation rate:	not applicable
Flammability:	not self-igniting
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:	> 645 °C
Vapour pressure:	approx. 23 hPa (20 °C) Information applies to the solvent.
Density:	approx. 1.10 g/cm <sup>3</sup> (20 °C)
Relative vapour density (air):	not applicable
Solubility in water:	dispersible (20 °C)
Partitioning coefficient n-octanol/water (log Kow):	not applicable
Thermal decomposition:	140 °C, 320 kJ/kg (DSC (OECD 113)) (onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

Viscosity, dynamic: approx. 19.6 mPa.s (20 °C, 100 1/s)  
Explosion hazard: not explosive  
Fire promoting properties: not fire-propagating

## 9.2 Other information

Other Information:

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

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## 10. Stability and Reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

See SDS section 7 - Handling and storage.

### 10.5 Incompatible materials

Substances to avoid:

Strong acids, strong bases, strong oxidizing agents.

### 10.6 Hazardous decomposition products

Hazardous decomposition products:

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

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## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity

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 skin contact. Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation.

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg

LC50 rat (by inhalation): > 5.6 mg/l 4 h

LD50 rat (dermal): > 4,000 mg/kg

#### 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 the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

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#### 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. There is no evidence of a skin-sensitizing potential.

##### Experimental/calculated data:

Modified Buehler 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: kresoxim-methyl (ISO); methyl (E)-2-methoxyimino-[2-(otolyloxymethyl)phenyl]acetate*

##### *Assessment of carcinogenicity:*

*Limited evidence of a carcinogenic effect.*

*Information on: 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-*

##### *Assessment of carcinogenicity:*

*In long-term studies in rats the substance induced thyroid tumours. The effect is caused by an animal specific mechanism that has no human counterpart. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.*

#### 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.

#### 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: 3-Pyridinecarboxamide, 2-chloro-N-(4'-chloro[1,1'-biphenyl]-2-yl)-*

##### *Assessment of repeated dose toxicity:*

*Adaptive effects were observed after repeated exposure in animal studies.*

#### Other relevant toxicity information

Misuse can be harmful to health.

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## 12. Ecological Information

### 12.1 Ecotoxicity

##### Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Toxicity to fish:  
LC50 (96 h) 2.00 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:  
EC50 (48 h) 0.52 mg/l, *Daphnia magna*

Aquatic plants:  
EC50 (72 h) 4.49 mg/l (growth rate), *Pseudokirchneriella subcapitata*

*Information on: kresoxim-methyl (ISO); methyl (E)-2-methoxyimino-[2-(o-tolyloxymethyl)phenyl]acetate*

Aquatic plants:  
EC50 (72 h) 0,250 mg/l (growth rate), *Ankistrodesmus bibraianus*  
EC10 (72 h) 0,007 mg/l (growth rate), *Ankistrodesmus bibraianus* (OECD Guideline 201)

## 12.2 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: boscalid*  
*Assessment biodegradation and elimination (H<sub>2</sub>O):*  
*Not readily biodegradable (by OECD criteria).*

*Information on: Kresoxim-methyl*  
*Assessment biodegradation and elimination (H<sub>2</sub>O):*  
*Poorly biodegradable.*

## 12.3 Bioaccumulative potential

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

*Information on: boscalid*  
*Bioaccumulation potential:*  
*No significant accumulation in organisms is expected as a result of the distribution coefficient of octanol/water (log Pow).*

*Information on: Kresoxim-methyl*  
*Bioaccumulation potential:*  
*Bioconcentration factor: 220 (28 d), *Oncorhynchus mykiss* (OPP 72-6 (EPA-Guideline))*

## 12.4 Mobility in soil

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: boscalid*  
*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: Kresoxim-methyl*  
*Assessment transport between environmental compartments:*  
*The substance will not evaporate into the atmosphere from the water surface. Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*



## 12.5 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

## 12.6 Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## 12.7 Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## 13. Disposal Considerations

### Container:

Ensure container is completely empty. Triple rinse container and add rinsate to the spray tank. Recycle the rinsed container through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)).

### Contaminated packaging:

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

### Product:

Dispose of this product only by using according to the label or at an approved landfill or at an approved facility. Do NOT burn product. Do NOT contaminate water with product or used container.

### 13.1. Waste treatment methods

Waste product/packaging may be sent to a suitable incineration plant, observing local regulations.

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## 14. Transport Information

Commercial transport:

Classified as Dangerous Goods for Land/rail (ADR/RID), sea (IMDG/GGVSee) and air transport (ICAO/IATA):

UN number:	UN 3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains KRESOXIM-METHYL, BOSCALID)
Transport hazard class(es):	9, EHSM
Packing group:	III
Marine pollutant:	YES
HAZCHEM:	2[Z]

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## 15. Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

## 15.2 Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

### NZ Regulations

Approved pursuant to the HSNO Act 1996, Code HSR007669.  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

Registered pursuant to the ACVM Act 1997, Nos. P7476.  
See [www.foodsafety.govt.nz/acvm](http://www.foodsafety.govt.nz/acvm) for registration conditions.

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## 16. Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Carc.	Carcinogenicity
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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.

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