

Safety Data Sheet

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BASF Safety Data Sheet

Date / Revised: 18.09.2023

Version: 8.0

Product: **COLLISS®**

(Ref: ID no. 30275860/SDS_CPA_00/EN)

1. Identification

Product identifier

COLLISS®

Recommended uses and restrictions on use (if any)

Recommended use:

crop protection product, fungicide.

Restricted use:

not applicable

Manufacturer / Supplier

BASF New Zealand Limited
5E City Works Depot,
77 Cook Street
Auckland 1010
NEW ZEALANDPhone: + 64 9 255 4300
0800 932 273

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)

2. Hazard Identification

Classification of the substance or mixture

Carcinogenicity : Category 2

Aquatic environment – acute : Category 1

Aquatic environment - chronic : Category 1

GHS Label Elements, including Precautionary Statements:

Signal Word:

WARNING.

Pictograms:



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GHS Hazard Statements

H351 : Suspected of causing cancer.
 H400 : Very toxic to aquatic life.
 H410 : Very toxic to aquatic life with long lasting effects.

GHS Precautionary Statements (Prevention)

P103 : Read label before use.
 P201 : Obtain special instructions before use.
 P202 : DO NOT handle until all safety precautions have been read and understood.
 P280 : Wear protective gloves, protective clothing and eye protection or face protection.

GHS Precautionary Statements (Response)

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

GHS Precautionary Statements (Storage)

P405 : Store locked up

GHS Precautionary Statements (Disposal):

P501 : Dispose of contents/container to hazardous or special waste collection point.
 Information regarding disposal considerations can be found in section 13.

According to UN GHS criteria

Hazard determining component(s) for labelling: Boscalid and Kresoxim-methyl

Other hazards

No other hazards known.

See section 12 - Results of PBT and vPvB assessment.

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

3. Composition/Information on Ingredients**Substances**

Not applicable

MixturesHazardous ingredients (GHS)

According to UN GHS criteria

Boscalid (ISO)

Content (W/W): 18.2 %
 CAS Number: 188425-85-6

Kresoxim-methyl (ISO)

Content (W/W): 9.1%
 CAS Number: 143390-89-0
 EC-Number: 417-880-0
 REACH Registration No.: 01-2119452496-32
 INDEX-Number: 607-310-00-0

Propane-1,2-diol

Content (W/W): <5%
 CAS Number: 57-55-6
 EC-Number: 200-338-0

4. First-Aid Measures

Description of necessary 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:

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.

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 symptoms and / or effects are not known so far.

Indication of any immediate medical attention and special treatment needed

Treatment:

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

Medical advice:

Contact the National Poisons and Hazardous Chemicals Information centre.
Phone 0800 POISON (0800 764 766).

5. Fire-Fighting Measures

Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide

Specific hazards

Carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, organochlorine compounds, silica compounds, sulfur oxides.

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

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

Special protective equipment for fire-fighters

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

Precautions for fire-fighters

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.

6. Accidental Release Measures

Personal precautions, Protective equipment and Emergency procedures

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 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.

7. Handling and Storage

Precautions for safe 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.

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: 60 months.

8. Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits

| | |
|--------------------------------------|--|
| Component: | Propane-1,2-diol |
| CAS Number: | 57-55-6 |
| TWA Value (particulates only): | 10 mg/m ³ (source: WES 2022) |
| TWA Value (vapour and particulates): | 150 ppm / 474 mg/m ³ (source: WES 2022) |
| Component: | Kresoxim-methyl |
| CAS Number: | 143390-89-0 |
| TWA Value: | 3.2 mg/m ³ (source: BASF recomm. occupational exposure limit) |

Engineering controls

Maintain air concentrations below occupational exposure standards.

Personal protective equipmentRespiratory 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 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.

9. 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) |
| Crystallisation temperature: | Approx. -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 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: | 645°C |
| Vapour pressure: | Approx. 23 hPa (25°C) (Information applies to the solvent) |
| Density: | Approx. 1.10 g/cm ³ (20°C) |
| Relative vapour density (air): | Not applicable |
| Solubility in water: | Dispersible |
| Partitioning coefficient n-octanol/water (log Kow): | Not applicable |
| Thermal decomposition: | 140°C, 320 kJ/kg (DSC) (onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, Class 4.1 |

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| | |
|----------------------------|--|
| Explosion hazard: | Not explosive |
| Fire promoting properties: | Not fire-propagating |
| Viscosity, dynamic: | Approx. 19.6 mPa.s (20°C, 100 1/s) |
| SADT: | >75°C |
| | Heat accumulation / Dewar 500 ml (SADT, UN-Test H.4, 28.4.4) |

10. Stability and Reactivity

Reactivity

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

Chemical stability

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

Possibility of hazardous reactions

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

Conditions to avoid

See SDS section 7 - Handling and storage.

Incompatible materials / Substances to avoid

Strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

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

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

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

Experimental/calculated data:

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

LC50 rat (by inhalation): >5.6 mg/l 4 h
No mortality was observed.

LD50 rat (dermal): >4,000 mg/kg
No mortality was observed.

Skin Corrosion / Irritation

Assessment of irritating effects:

Not irritating to the 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

Serious Eye Damage / Irritation

Assessment of irritating effects:

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

Experimental/calculated data:

Serious eye damage/irritation rabbit: non-irritant.

Respiratory or Skin sensitization

Assessment of sensitization:

There is no evidence of a skin sensitising potential. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Modified Buehler test guinea pig: non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity:

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

Carcinogenicity

Assessment of carcinogenicity:

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

Information on: Boscalid

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.

Information on: Kresoxim-methyl

Assessment of carcinogenicity:

Limited evidence of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

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

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)

Assessment of STOT single:

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: boscalid

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

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.

12. Ecological Information**Ecotoxicity - Aquatic**Assessment of aquatic toxicity:

Very to aquatic life. Very toxic to aquatic life with long lasting effects.

Toxicity to fish:

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

NOEC (97 d): 0.116 mg ai/l, *Oncorhynchus mykiss*, (Boscalid, ISO)

NOEC (32 d): 0.087 mg ai/l, *Pimephales promelas*, (Kresoxim-methyl ISO)
The statement of the toxic effect relates to the analytically determined concentration

NOEC (28 d): 0.013, *Oncorhynchus mykiss*, (Kresoxim-methyl ISO)
The statement of the toxic effect relates to the analytically determined concentration

Aquatic invertebrates:

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

Aquatic plants:

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

Ecotoxicity - TerrestrialAssessment of terrestrial toxicity:

Not hazardous to terrestrial vertebrates. The product has not been tested. The statement has been derived from the properties of the active ingredients.

Toxicity to birds:

Acute oral LD50 (8 d): >2,000 mg ai/l, *Colinus virginianus*, (Boscalid (ISO))

Toxicity to soil organisms:

Acute LC50 (14d) >500 mg ai/kg, *Eisenia fetida*, (Boscalid (ISO))

Toxicity to Pollinators:Acute LD50 (oral): >166 µg ai/bee, *Apis mellifera*, (Boscalid (ISO))Acute LD50 (48h, contact): >200 µg ai/bee, *Apis mellifera*, (Boscalid (ISO))Toxicity to birds:Acute oral LD50: >2,150 mg ai/l, *Anas platyrhynchos*, (Kresoxim-methyl (ISO))Toxicity to soil organisms:Acute LC50 >469 mg ai/kg, *Eisenia fetida*, (Kresoxim-methyl (ISO))Toxicity to Pollinators:Acute LD50 (oral): >110 µg ai/bee, *Apis mellifera*, (Kresoxim-methyl (ISO))Acute LD50 (48h, contact): >100 µg ai/bee, *Apis mellifera*, (Kresoxim-methyl (ISO))**Persistence and degradability**Assessment biodegradation and elimination (H₂O):

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

Information on: Boscalid (ISO)

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable.

Information on: Kresoxim-methyl (ISO)

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable.

Bioaccumulative potentialAssessment bioaccumulation potential:

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

Information on: Boscalid (ISO)

Bioaccumulation potential:Bioconcentration factor: 57-70 (28 d), *Oncorhynchus mykiss*

Does not accumulate in organisms.

Information on: Kresoxim-methyl (ISO)

Bioaccumulation potential:Bioconcentration factor: 220 (28 d), *Oncorhynchus mykiss*

Accumulation in organisms is not to be expected.

Mobility in soilAssessment transport between environmental compartments:

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

Information on: Boscalid (ISO)

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of ground water is not expected.

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Information on: Kresoxim-methyl (ISO)

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of ground water is not expected.

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.

Other adverse effects

Other ecotoxicological advice:

Do not discharge product into the environment without control.

Do not apply onto or into water.

13. Disposal Considerations

Container:

Triple rinse empty container and add rinsate to the spray tank. Recycle through Agrecovery (0800 247 326, www.agrecovery.co.nz). Do not use container for any other purpose.

Product:

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

Waste product/packaging may 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.

14. Transport Information

Commercial transport:

Classified as dangerous good(s) for Land/rail (ADR/RID), sea (IMDG) and air transport (ICAO/IATA):

Land / Rail / Road (ADR/RID):

| | |
|--|--|
| UN number: | UN 3082 |
| UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Boscalid, Kresoxim-methyl) |
| Transport hazard class(es) / UN DG Class: | 9, (EHSM) |
| Packing group: | III |
| Environmental hazards: | Yes, Marine pollutant |
| HAZCHEM: | 2[Z] |
| Special precautions when transporting the substance: | None known |

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Sea transport (IMDG):

| | |
|--|--|
| UN number: | UN3082 |
| UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Boscalid, Kresoxim-methyl) |
| Transport hazard class(es): | 9, EHSM |
| Packing group: | III |
| Environmental hazards: | marine pollutant |
| Marine pollutant: | Yes |
| Special precautions when transporting the substance: | EmS: F-A; S-F |

Air transport (IATA / ICAO):

| | |
|--|--|
| UN number: | UN3082 |
| UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Boscalid, Kresoxim-methyl) |
| Transport hazard class(es): | 9, EHSM |
| Packing group: | III |
| Environmental hazards: | Yes, marine pollutant |
| Special precautions when transporting the substance: | None known |

Additional 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).

15. Regulatory Information**HSNO Approval Number**

HSR007669.

See www.epa.govt.nz for approval conditions.**Tolerable Exposure Limit or Environmental Exposure Limit**

| | |
|------|----------|
| TEL: | None set |
| EEL: | None set |

Relevant Regulatory Requirements

| | |
|-------------------------------|---------------------------|
| Qualifications: | Required. Refer to label. |
| Certified Handler: | Not required |
| Tracking: | Not required |
| Record Keeping: | Required. Refer to label. |
| Restricted to Workplace: | Not applicable |
| Controlled substance licence: | Not required |

ACVM Registration

P007476

See www.foodsafety.govt.nz/acvm for registration conditions.

International Agreements related to the substance such as Montreal Protocol, the Stockholm Convention or Rotterdam Convention

not applicable

16. Other Information

Date of preparation of the SDS

18 September 2023

Key or legend to abbreviations and acronyms used

| | |
|-------------|--|
| ACGIH | The American Conference of Governmental Industrial Hygienists |
| ACVM | Agricultural Compounds and Veterinary Medicines |
| ADN | International Carriage of Dangerous Goods by Inland Waterways (EU) |
| ADR/RID | Dangerous Goods for Road / Rail |
| DG | Dangerous Goods |
| EC50 | Median effective concentration |
| EEL | Environmental Exposure Limit |
| EHSM | Environmental Health and Safety Management |
| EPA | Environmental Protection Authority |
| EU | European Union |
| GHS | Globally Harmonised System |
| ICAO | International Civil Aviation Organisation |
| IATA | International Air Transport Association |
| IERG | International Emergency Response Guide |
| IMDG | International Maritime Dangerous Goods |
| LD50 | Lethal concentration to 50% of the test population |
| NOEC | No Observed Effect Concentration |
| N.O.S. | Not Otherwise Specified |
| OEL | Operator Exposure Limits |
| PBT or vPvP | Persistent / Bioaccumulative / Toxic or very Persistent / very Bioaccumulative |
| SDS | Safety Data Sheet |
| STOT | Specific Target Organ Toxicity |
| TDG | Transportation of Dangerous Goods |
| TEL | Tolerable Exposure Limit |
| TLVs | Threshold Limit Values |
| UN GHS | United Nations Globally Harmonised System |
| WES | Workplace Exposure Standards |
| 49CFR | Code of Federal Regulations Title 49 for Transportation |

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

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.