

Safety Data Sheet

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BASF Safety Data Sheet

Date / Revised: 31.08.2023

Product: **PRISTINE®**

Version: 2.0

(Ref. 30277930/SDS_CPA_NZ/EN)

1. Identification

Product identifier

PRISTINE®

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 ZEALAND

Phone: + 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

Acute oral toxicity : Category 4
Specific target organ toxicity - repeat exposure : 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

H302 : Harmful if swallowed.
 H373 : May cause damage to organs (liver) through prolonged or repeated exposure.
 H400 : Very toxic to aquatic life.
 H410 : Very toxic to aquatic life with long lasting effects.

GHS Precautionary Statements (Prevention)

P102 : Keep out of reach of children.
 P103 : Read label before use.
 P260 : Do not breathe mist, vapours and spray.
 P264 : Wash hands and face thoroughly after handling.
 P270 : Do not eat, drink or smoke when using this product.

GHS Precautionary Statements (Response)

P101 : If medical advice is needed, have product container or label at hand.
 P301 + P312 : IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
 P330 : Rinse mouth.
 P314 : Get medical advice / attention if you feel unwell.
 P391 : Collect spillage.

GHS Precautionary Statements (Storage)

No specific storage requirements.

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, pyraclostrobin

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): 25.2%
 CAS Number: 188425-85-6

Pyraclostrobin (ISO)

Content (W/W): 12.8%
 CAS Number: 175013-18-0

Ammonium sulphate

Content (W/W): <20%
 CAS Number: 7783-20-2

Alkyl-naphthalene and condensated with formaldehyde, sodium salt

Content (W/W): <15%
CAS Number: 68425-94-5

Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt

Content (W/W): <10%
CAS Number: 9084-06-4

Silica gel, precipitated, crystalline free

Content (W/W): <20%
CAS Number: 112926-00-8

Lignosulfonic acid, sodium salt

Content (W/W): <15%
CAS Number: 8061-51-6

Kaolin

Content (W/W): <10%
CAS Number: 1332-58-7

Sodium sulphate

Content (W/W): <5%
CAS Number: 7757-82-6

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:

Information, i.e. additional information on symptoms and effects may be included in the GHS labelling phrases available in Section 2 and in the Toxicological assessments available 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

Unsuitable extinguishing media for safety reasons

Carbon dioxide

Specific hazards

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

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

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

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

Avoid dust formation.

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: Contain with dust binding material and dispose of.

For large amounts: Sweep / shovel up.

Avoid raising dust. 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 against moisture. Protect from direct sunlight.

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Storage stability: 48 months.

Protect from temperatures above 40°C.

Changes in the properties of the product may occur if substance / product is stored above indicated temperature for extended periods of time.

8. Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits

Component:	Kaolin
CAS Number:	1332-58-7
TWA Value:	2 mg/m ³ respirable fraction (source: ACGIHTLV), The value is for particulate matter containing no asbestos and <1% crystalline silica.
TWA Value:	10 mg/m ³ inhalable dust (source: WES 2022)
TWA Value:	2 mg/m ³ respirable dust (source: WES 2022)
Component:	silica gel, precipitated, crystalline free
CAS Number:	112926-00-8
TWA Value:	10 mg/m ³ (source: WES 2022)

Engineering controls

Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Particulate filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).

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

Form:	Granules, extrudates
Colour:	Brown
Odour:	Moderate odour, smoky
Odour threshold:	Not determined due to potential health hazard by inhalation

pH value:	Approx. 6 - 8 (1% (m), 20°C) (as suspension)
Melting range:	Approx. 50°C
Boiling point:	The product has not been tested
Flash point:	Not applicable, the product is a solid.
Evaporation rate:	Not applicable
Flammability:	Not highly flammable
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.
Thermal decomposition:	150°C, 350 kJ/kg No decomposition if stored and handled as prescribed.
Self ignition temperature:	328°C
Self heating ability:	Not tested on account of the low melting-point.
Explosion hazard:	Not explosive
Fire promoting properties:	Not fire-propagating
Vapour pressure:	Not applicable
Density:	Approx. 1.51 g/cm ³ (20°C)
Bulk density:	600 kg/cm ³ 689 kg/m ³ Apparent density after tamping
Relative vapour density (air):	Not applicable
Solubility in water:	Dispersible
Partitioning coefficient n-octanol/water (log Kow):	Not applicable
Viscosity, dynamic:	Not applicable, the product is a solid.

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.

Thermal decomposition: 150°C, 350 kJ/kg (DSC)

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

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:

Of moderate toxicity after single ingestion. Virtually non-toxic by inhalation. Virtually non-toxic 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.

Experimental/calculated data:

LD50 rat (oral):	1,490 mg/kg
LC50 rat (by inhalation):	>5.4 mg/l 4 h No mortality was observed.
LD50 rat (dermal):	>2,000 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:

May cause slight irritation 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: slight-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.

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 (ISO)

Assessment of carcinogenicity:

In long term studies in rats the substance induced thyroid tumors. 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: Kaolin

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests. However, the relevance of this result for humans is unclear.

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 (ISO)

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

Information on: Pyraclostrobin (ISO)

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.

Information on: Kaolin

Assessment of repeated dose toxicity:

Repeated inhalative uptake of particles / dust reaching the alveoli may cause damage to the lungs.

Information on: Silica gel, precipitated, crystalline free

Assessment of repeated dose toxicity:

The substance may cause damage to the lungs after repeated inhalation of high doses.

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 toxic to aquatic life with long lasting effects.

Toxicity to fish:LC50 (96 h): 0.042 mg/l, *Oncorhynchus mykiss*NOEC (97 d) 0.116 mg ai/l, *Oncorhynchus mykiss* (boscalid (ISO))NOEC (98 d) 0.00235 mg ai/l, flow-through, *Oncorhynchus mykiss* (pyraclostrobin (ISO))Aquatic invertebrates:EC50 (48 h) 0.08 mg/l, *Daphnia magna*NOEC (21 d) 0.004 mg ai/l, *Daphnia magna* (Pyraclostrobin (ISO))
The details of the toxic effect relate to the nominal concentration.NOEC (28 d) 0.00128 mg ai/l, *Mysidopsis bahia* (Pyraclostrobin (ISO))
The details of the toxic effect relates to the analytically determined concentration.Aquatic plants:ErC50 (72 h) 4.99 mg/l (growth rate) / *Pseudokirchneriella subcapitata*EC10 (72 h) 1.29 mg/l (growth rate) / *Pseudokirchneriella subcapitata***Ecotoxicity - Terrestrial**Assessment of terrestrial toxicity:

With high probability not acutely harmful to terrestrial organisms.

The product has not been tested. The statement has been derived from the properties of active ingredients, Boscalid and Pyraclostrobin.

Toxicity to birds:Acute LD50: >2,000 mg ai/kg, Northern Bobwhite Quail (*Colinus virginianus*) (Boscalid)Acute LD50: >2,000 mg ai/kg, Northern Bobwhite Quail (*Colinus virginianus*) (Pyraclostrobin)Toxicity to soil organisms:LC50 >1,000 mg ai/kg, Earthworms; *Eisenia fetida* (Boscalid)LC50 556 mg ai/kg, Earthworms; *Eisenia fetida* (Pyraclostrobin)Toxicity to Pollinators:NOEC (oral): >100 µg ai/bee, *Apis mellifera* (Boscalid)NOEC (contact): >100 µg ai/bee, *Apis mellifera* (Boscalid)LD50 (48h, oral): >100 µg ai/bee, *Apis mellifera* (Pyraclostrobin)LD50 (48h, contact): >100 µg ai/bee, *Apis mellifera* (Pyraclostrobin)**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: Pyraclostrobin (ISO)

Assessment biodegradation and elimination (H2O):

Not readily biodegradable.

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 (ISO)

Bioaccumulation potential:

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

Does not accumulate in organisms.

Information on: Pyraclostrobin (ISO)

Bioaccumulation potential:

Bioconcentration factor: 379-507, *Oncorhynchus mykiss*

Accumulation in organisms is not to be expected.

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 (ISO)

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 (ISO)

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater 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/package 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 3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains boscalid, pyraclostrobin)
Transport hazard class(es) / UN DG Class:	9, (EHSM)
Packing group:	III
Environmental hazards:	Marine pollutant
HAZCHEM:	2Z
IERG Number:	47
Special precautions when transporting the substance:	None known

Sea transport (IMDG):

UN number:	UN 3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains boscalid, pyraclostrobin)
Transport hazard class(es):	9, (EHSM)
Packing group:	III
Environmental hazards:	Marine pollutant
Marine pollutant:	Yes
Special precautions when transporting the substance:	None known

Air transport (IATA / ICAO):

UN number:	UN 3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains boscalid, pyraclostrobin)
Transport hazard class(es):	9, (EHSM)
Packing group:	III
Environmental hazards:	Marine pollutant
Special precautions when transporting the substance:	None known

Additional Information:

The following provisions may apply for product in packages containing a net quantity of 5 kg or less
 ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2);
 49CFR: §171.4 (c) (2).

15. Regulatory Information

HSNO Approval Number

HSR007853.

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

P007595

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

31 August 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.

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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.