

# Safety Data Sheet

**BASF Safety Data Sheet**

Date / Revised: 09.03.2021 (Version: 1.0)

Product: **BELANTY®**

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(ID no. 30738877/SDS\_CPA\_NZ/EN)

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

### 1.1. Product identifier

**Belanty®**

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

Relevant identified uses: crop protection product, fungicide

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

Company:

BASF New Zealand Limited

5E City Works Depot, 77 Cook Street, Auckland Central, Auckland 1010

P.O. Box 407, Auckland 1140

Phone: 0800 932 273

### 1.4. 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)

## SECTION 2. Hazards Identification

### 2.1. Classification of the substance or mixture

Hazard classification:

9.1B, 9.3C

### 2.2. Label elements

Pictogram:



Priority Identifier: WARNING.

Hazard Statements:

Toxic to aquatic life with long lasting effects. Harmful to terrestrial vertebrates.

Prevention:

Keep out of reach of children. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

Wash hands and exposed skin thoroughly with soap and water after handling. Use personal protective equipment as required (see Section 8).

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Response:

Contact the National Poisons Centre 0800 POISONS (0800 764 766) or a doctor if you feel unwell.  
Collect spillage (see Section 6)

### 2.3. Other hazards

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, 2-METHYL-2H-ISOTHIAZOL-3-ONE

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## SECTION 3. Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical nature

crop protection product, fungicide, emulsifiable concentrate (EC).

Hazardous ingredients

1H-1,2,4-Triazole-1-ethanol,  $\alpha$ -[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]- $\alpha$ -methyl-; Mefentrifluconazole  
Content (W/W): 7.12 %  
CAS Number: 1417782-03-6

Skin Sens. Cat 1  
Aquatic Acute Cat 1  
Aquatic Chronic Cat 1  
M-factor acute: 1  
M-factor chronic: 1

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

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## SECTION 4. First-Aid Measures

### 4.1. Description of first aid measures

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. Get medical advice/attention if you feel unwell.

If inhaled:

Keep patient calm, remove to fresh air.

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.

Remove contact lenses, if present and easy to do.

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

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.

## 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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## SECTION 5. Fire-Fighting Measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Water spray, dry powder, foam, carbon dioxide.

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

carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, halogenated 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:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. 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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## SECTION 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. Wear suitable protective equipment.

### 6.4 Reference to other sections

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

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## SECTION 7. Handling and Storage

### 7.1. 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.

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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 feedstuff.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Protect from temperatures below: -5 °C

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

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.

### AGGREGATE STORAGE VOLUME THRESHOLDS:

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.

Location Certificate*:	Hazardous Atmosphere Zone*:	Fire Extinguishers:	Signage [Hazard Class & Emergency Action]:	Emergency Information:	Emergency Response Plan:	Secondary Containment:
NA	NA	NA	1000 litres	10 litres	1000 litres	1000 litres

\* Note: Farms  $\geq$  4 ha are exempt but with controls.

### DO NOT STORE OR LOAD WITH:

Class 1 Explosive

### SEGREGATE FROM:

Food or food containers and animal feedstuff

**Segregation:** 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.

## 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.

CERTIFIED HANDLER: Not required.

QUALIFICATION REQUIREMENTS: Not required.

TRACKING: Not required.

RECORD KEEPING: Not required.

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.

## SECTION 8. Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

propane-1,2-diol, 57-55-6;

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

TWA value 474 mg/m<sup>3</sup> ; 150 ppm (OEL (NZ)), Vapor and particulates

## 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) 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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## SECTION 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Form:	liquid.
Colour:	off-white.
Odour:	faint, fruity.
Odour threshold:	not determined due to potential health hazard by inhalation.
pH value:	approx. 4.5 - 6.5 (20 °C).
Freezing point:	approx. -1 °C.
Boiling point:	approx. 100 °C (Information applies to the solvent.).
Flash point:	non-flammable.
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:	approx. 450 °C.
Thermal decomposition:	280 °C, > 1,360 kJ/kg (onset temperature). Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.
Explosion hazard:	based on the chemical structure there is no indication of explosive properties.
Fire promoting properties:	based on its structural properties the product is not classified as oxidizing.
Vapour pressure:	approx. 23.4 hPa (20 °C) Information applies to the solvent.
Density:	approx. 1.05 g/cm <sup>3</sup> (20 °C).
Relative vapour density (air):	not applicable.
Solubility in water:	soluble.
Partitioning coefficient n-octanol/water (log Pow):	not applicable.
Viscosity, dynamic:	approx. 93 mPa.s (20 °C, 100 1/s).

## 9.2. Other information

Other Information:

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

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## SECTION 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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## SECTION 11. Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

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.

Experimental/calculated data:

LD50 rat (oral): > 2,000 mg/kg

No mortality was observed.

LC50 rat (by inhalation): > 5.41 mg/l

No mortality was observed. An aerosol was tested.

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

No mortality was observed.

#### Irritation

Assessment of irritating effects:

Not irritating to the skin. 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:

Skin corrosion/irritation rabbit: non-irritant.

Serious eye damage/irritation rabbit: non-irritant.

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### Respiratory/Skin sensitization

#### Assessment of sensitization:

Sensitization after skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, polymer with a-hydro-hydroxypoly(oxy-1,4-butanediyl) and 5-isocyanato-1-(isocyanatome*

*Experimental/calculated data:*

*mouse: (OECD Guideline 429)*

*Information on: 1H-1,2,4-Triazole-1-ethanol,  $\alpha$ -[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]- $\alpha$ -methyl-*

*Experimental/calculated data:*

*Guinea pig maximization test guinea pig: skin sensitizing (OECD Guideline 406)*

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

*Experimental/calculated data:*

*Guinea pig maximization test guinea pig: skin sensitizing (OECD Guideline 406)*

*Information on: 2-methyl-2H-isothiazol-3-one*

*Experimental/calculated data:*

*guinea pig: skin 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. 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. The results of various animal studies gave no indication of a carcinogenic effect.

### 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.

### 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: 1H-1,2,4-Triazole-1-ethanol,  $\alpha$ -[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]- $\alpha$ -methyl-  
Assessment of repeated dose toxicity:  
Repeated oral exposure to large quantities may affect certain organs. Liver*

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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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## SECTION 12. Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:  
Toxic to aquatic life with long lasting effects.

Toxicity to fish:  
LC50 (96 h) 3.63 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:  
EC50 (48 h) 17.37 mg/l, *Daphnia magna*

Aquatic plants:  
EC50 (72 h) 20.83 mg/l, *Pseudokirchneriella subcapitata*  
EC10 (72 h) 7.88 mg/l, *Pseudokirchneriella subcapitata*

*Information on: 1H-1,2,4-Triazole-1-ethanol,  $\alpha$ -[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]- $\alpha$ -methyl-  
Chronic toxicity to fish:  
(36 d) 0.027 mg/l, *Brachydanio rerio**

*Information on: 1H-1,2,4-Triazole-1-ethanol,  $\alpha$ -[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]- $\alpha$ -methyl-  
Chronic toxicity to aquatic invertebrates:  
No observed effect concentration (21 d) 0.01 mg/l, *Daphnia magna**

EC10 (21 d), 0.0175 mg/l, *Daphnia magna*

### 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: 1H-1,2,4-Triazole-1-ethanol,  $\alpha$ -[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]- $\alpha$ -methyl-  
Assessment biodegradation and elimination (H<sub>2</sub>O):  
Not readily biodegradable (by OECD criteria).*

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### 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.



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*Information on: 1H-1,2,4-Triazole-1-ethanol,  $\alpha$ -[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]- $\alpha$ -methyl-  
Bioaccumulation potential:  
Bioconcentration factor: 385  
Does not accumulate in organisms.*

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#### 12.4. Mobility in soil

Assessment 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: 1H-1,2,4-Triazole-1-ethanol,  $\alpha$ -[4-(4-chlorophenoxy)-2-(trifluoromethyl)phenyl]- $\alpha$ -methyl-  
Assessment transport between environmental compartments:  
Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

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#### 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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## SECTION 13. Disposal Considerations

To avoid disposal all attempts should be made to use this product completely, in accordance with its registered use. If this is not possible handle with care and dispose of in a safe manner. Follow all applicable community, regional and national regulations regarding waste management methods.

#### 13.1. Waste treatment methods

Container:

Triple rinse empty container and add residue to the spray tank.

Recycle through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)).

Otherwise crush and bury in a suitable landfill. DO NOT REUSE empty container.

Product:

Dispose of this product only by using according to the label or at an approved landfill. DO NOT burn product. For information on disposal of unused, unwanted product, contact the local council.

DO NOT contaminate surface or ground water with chemical or empty container.

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## SECTION 14. Transport Information

Commercial transport:

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

UN number

UN3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains TRIAZOLE DERIVATIVE, MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1))

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Transport hazard class(es): 9, EHSM  
Packing group: III  
Environmental hazards: YES  
Special precautions for user: None known  
Marine pollutant: YES  
HAZCHEM: 3[Z]

#### **14.1. UN number**

See corresponding entries for "UN number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Regulation: Not evaluated  
Shipment approved: Not evaluated  
Pollution name: Not evaluated  
Pollution category: Not evaluated  
Ship Type: Not evaluated

#### Further information

The following provisions may apply for product in packages containing a net quantity of 5 L 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).

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## **SECTION 15. Regulatory Information**

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

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

#### NZ Regulations

Approved pursuant to the HSNO Act 1996, Code HSR101448.  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

Registered pursuant to the ACVM Act 1997, No. P9798.  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

### **15.2 Chemical Safety Assessment**

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

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## **SECTION 16. Other Information**

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. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. 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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