

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

### 1.1. Product identifier

|                             |  |
|-----------------------------|--|
| Trade name                  | : JOUST  |
| Synonyms                    | : 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione 250g/L |
| Product form                | : Mixture  |
| Type (Nufarm)               | : Country Specific   |
| Country (Nufarm)            | : Czech Republic   |
| CA Code (Nufarm)            | : 3301   |
| Product code                | : CA3301   |
| Oracle Recipe Code (Nufarm) | : 610000848  |
| Item codes                  | : 110005155  |
| UFI                         | : Q846-YHJP-CHAF-2KR0  |
| Registration-No.            | : 5989-0   |
| Registration-No. Date       | : 21/12/2023   |

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

#### 1.2.1. Relevant identified uses

|                              |                    |
|------------------------------|--------------------|
| Main use category            | : Professional use |
| Use of the substance/mixture | : Fungicide        |

#### 1.2.2. Uses advised against

No additional information available

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

#### Manufacturer

Nufarm S.A.S  
Immeuble WEST PLAZA  
11 rue du débarcadère  
92700 COLOMBES - FRANCE  
T +33 1 40 85 50 50 - F +33 1 47 92 25 45  
[FDS@nufarm.com](mailto:FDS@nufarm.com)

### 1.4. Emergency telephone number

Emergency number : Organisme français INRS +33 1 45 42 59 59; Nufarm S.A.S +33 1 40 85 51 15

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

|   |      |
|---|------|
| Acute toxicity (inhal.), Category 4                               | H332 |
| Skin corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 2                     | H319 |
| Skin sensitisation, category 1B                                   | H317 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1   | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 1 | H410 |
| Full text of H-statements: see section 16                         |      |

#### Adverse physicochemical, human health and environmental effects

Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

EUH-statements

Extra phrases

- : Warning
- : Prothioconazole; n,n-dimethyl- 9-dodecenamide
- : H315 - Causes skin irritation.
- : H317 - May cause an allergic skin reaction.
- : H319 - Causes serious eye irritation.
- : H332 - Harmful if inhaled.
- : H410 - Very toxic to aquatic life with long lasting effects.
- : P261 - Avoid breathing spray, mist.
- : P264 - Wash hands, forearms and face thoroughly after handling.
- : P271 - Use only outdoors or in a well-ventilated area.
- : P272 - Contaminated work clothing should not be allowed out of the workplace.
- : P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- : P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- : P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- : P337+P313 - If eye irritation persists: Get medical advice/attention.
- : P362+P364 - Take off contaminated clothing and wash it before reuse.
- : P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- : P312 - Call a POISON CENTRE or doctor if you feel unwell.
- : P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- : P273 - Avoid release to the environment.
- : P391 - Collect spillage.
- : P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
- : SP 1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

#### Component

Prothioconazole (178928-70-6)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### Component

Prothioconazole(178928-70-6)

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name  | Product identifier  | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|---|---|-------|--|
| n,n-dimethyl- 9-dodecenamide  | (CAS-No.) 1374570-57-6<br>(REACH-no) 01-2120938281-57                   | 60-70 | Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                                      |
| Prothioconazole   | (CAS-No.) 178928-70-6<br>(EC-No.) 605-841-2                             | 25.13 | Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410  |
| Benzenesulfonic acid, dodecyl-, calcium salt  | (CAS-No.) 26264-06-2<br>(EC-No.) 247-557-8                              | 1-2   | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4<br>(Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 |
| 2-Ethylhexanol<br>substance with national workplace exposure limit(s)<br>(CZ); substance with a Community workplace<br>exposure limit | (CAS-No.) 104-76-7<br>(EC-No.) 203-234-3<br>(REACH-no) 01-2119487289-20 | 1-2   | Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335  |

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : Move the affected person away from the contaminated area and into the fresh air. If experiencing respiratory symptoms: Call a poison center or a doctor. If you feel unwell, seek medical advice. If unconscious, place in the recovery position and seek medical advice. If breathing stops, give artificial respiration. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.   |
| First-aid measures after eye contact  | : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Immediately call a POISON CENTER/doctor.  |
| First-aid measures after ingestion    | : Rinse mouth out with water. Get medical advice/attention. Do not induce vomiting without medical advice.   |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : None under normal use. May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Irritation.  |
| Symptoms/effects after eye contact  | : Serious damage to eyes.                                  |
| Symptoms/effects after ingestion    | : Ingestion may cause nausea and vomiting.                 |

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

Treat symptomatically.

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### SECTION 5: Firefighting 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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a closed container. Keep only in original container. Avoid storage below 0°C. Protect against frost. Store in a well-ventilated place.  
Information on mixed storage : Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.  
Special rules on packaging : Keep only in original container. Store in a closed container.

#### 7.3. Specific end use(s)

Fungicide.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

###### 2-Ethylhexanol (104-76-7)

###### EU - Indicative Occupational Exposure Limit (IOEL)

|                      |                                    |
|----------------------|------------------------------------|
| Local name           | 2-ethylhexan-1-ol                  |
| IOEL TWA             | 5.4 mg/m <sup>3</sup>              |
| IOEL TWA [ppm]       | 1 ppm                              |
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2017/164 |

###### Czech Republic - Occupational Exposure Limits

|                      |  |
|----------------------|--|
| Local name           | 2-Ethylhexanol   |
| PEL (OEL TWA)        | 5.4 mg/m <sup>3</sup>                                      |
| PEL (OEL TWA) [ppm]  | 1 ppm  |
| NPK-P (OEL C)        | 11 mg/m <sup>3</sup>                                       |
| NPK-P (OEL C) [ppm]  | 2 ppm  |
| Remark (CZ)          | I - dráždí sliznice (oči, dýchací cesty), respektive kůži. |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)      |

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Minimise exposure using measures such as contained and enclosed systems, properly designed and maintained dedicated facilities and suitable general/local exhaust ventilation.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

The recommendations in this section are for employees in manufacturing, formulations and conditioning. For farm users and handlers, please read the product label for suitable personnel protective equipment and apparatus.

###### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

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| Eye protection: |                      |                   |          |
|-----------------|----------------------|-------------------|----------|
| Type            | Field of application | Characteristics   | Standard |
| Safety glasses  |                      | With side shields | EN 166   |

### 8.2.2.2. Skin protection

| Skin and body protection:  |
|--|
| According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn. EN 14605 |

| Hand protection:                                       |                         |                   |                |             |  |
|--|-------------------------|-------------------|----------------|-------------|--|
| Wear suitable gloves resistant to chemical penetration |                         |                   |                |             |  |
| Type   | Material                | Permeation        | Thickness (mm) | Penetration | Standard   |
| Reusable gloves  | Nitrile rubber (NBR)    | 6 (> 480 minutes) | 0.4            |             | EN ISO 374-1/A1 ,<br>EN 16523+A1 (type A)          |
| Reusable gloves  | Chloroprene rubber (CR) | 6 (> 480 minutes) | 0.5            |             | EN ISO 374-1/A1 ,<br>EN 16523+A1 (type A)          |
| Reusable gloves  | Butyl rubber            | 6 (> 480 minutes) | 0.7            |             | EN ISO 374-1/A1 ,<br>EN 16523+A1 (type A)          |
| Disposable gloves                                      |                         |                   |                |             | EN ISO 374-1/A1 ,<br>EN ISO 374-2 (A,B, or C type) |

| Other skin protection  |          |          |
|--|----------|----------|
| Materials for protective clothing:   |          |          |
| Condition  | Material | Standard |
| According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn |          | EN 14605 |

### 8.2.2.3. Respiratory protection

| Respiratory protection:  |             |  |          |
|--|-------------|--|----------|
| Users are advised to consider national Occupational Exposure Limits or other equivalent values. Ensure exposure is below occupational exposure limits (where available). |             |  |          |
| Device   | Filter type | Condition  | Standard |
| respirator with combination filter for vapour/particles  | ABEK        | In case of inadequate ventilation wear respiratory protection. | EN 14387 |

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Other information:

Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke during use. Keep away from children. Remove contaminated clothing. Separate working clothes from town clothes. Wash contaminated clothing before reuse. Wash hands immediately after handling the product.

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### SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                  | : Liquid   |
| Colour  | : Yellow.  |
| Odour   | : odourless.                                       |
| Odour threshold                                 | : Not available                                    |
| Melting point                                   | : Not applicable                                   |
| Freezing point                                  | : Not available                                    |
| Boiling point                                   | : Not available                                    |
| Flammability                                    | : Not applicable                                   |
| Explosive properties                            | : Not explosive.                                   |
| Oxidising properties                            | : Non oxidizing material according to EC criteria. |
| Explosive limits                                | : Not available                                    |
| Lower explosive limit (LEL)                     | : Not available                                    |
| Upper explosive limit (UEL)                     | : Not available                                    |
| Flash point                                     | : 149.7 °C (closed cup)                            |
| Auto-ignition temperature                       | : not observed                                     |
| Decomposition temperature                       | : Not available                                    |
| pH  | : 6.18   |
| Viscosity, kinematic                            | : 46.95 mm <sup>2</sup> /s (20°C)                  |
| Viscosity, kinematic                            | : 40.92 mm <sup>2</sup> /s (40°C)                  |
| Viscosity, dynamic                              | : Not applicable.                                  |
| Solubility                                      | : Water: In water, the material disperses          |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                    |
| Vapour pressure                                 | : Not available                                    |
| Vapour pressure at 50°C                         | : Not available                                    |
| Density   | : Not available                                    |
| Relative density                                | : 0.9948   |
| Relative vapour density at 20°C                 | : Not available                                    |
| Particle size                                   | : Not applicable                                   |
| Particle size distribution                      | : Not applicable                                   |
| Particle shape                                  | : Not applicable                                   |
| Particle aspect ratio                           | : Not applicable                                   |
| Particle aggregation state                      | : Not applicable                                   |
| Particle agglomeration state                    | : Not applicable                                   |
| Particle specific surface area                  | : Not applicable                                   |
| Particle dustiness                              | : Not applicable                                   |

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

No additional information available

##### 9.2.2. Other safety characteristics

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 10.4. Conditions to avoid

Avoid high temperatures.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Harmful if inhaled. (Based on available data, the classification criteria are not met)

| JOUST               |              |
|---------------------|--------------|
| ATE CLP (gases)     | 4500 ppmv/4h |
| ATE CLP (vapours)   | 11 mg/l/4h   |
| ATE CLP (dust,mist) | 1.5 mg/l/4h  |

| Prothioconazole (178928-70-6) |                               |
|-------------------------------|-------------------------------|
| LD50 oral rat                 | > 6200 mg/kg                  |
| LD50 dermal rat               | > 2000 mg/kg                  |
| LC50 Inhalation - Rat         | > 4990 mg/m <sup>3</sup> (4h) |

| Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2) |                   |
|---|-------------------|
| LD50 oral rat   | 1086 – 1980 mg/kg |

| 2-Ethylhexanol (104-76-7)   |                                |
|-----------------------------|--------------------------------|
| LD50 oral rat               | 3730 mg/kg                     |
| LD50 dermal rabbit          | 1980 mg/kg                     |
| LC50 Inhalation - Rat [ppm] | > 227 ppm (Exposure time: 6 h) |

Skin corrosion/irritation : Causes skin irritation.  
pH: 6.18  
Serious eye damage/irritation : Causes serious eye irritation.  
pH: 6.18  
Respiratory or skin sensitisation : May cause an allergic skin reaction. (Based on available data, the classification criteria are not met)  
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

| Prothioconazole (178928-70-6) |                       |
|-------------------------------|-----------------------|
| NOAEL (animal/male, F0/P)     | 95.6 mg/kg bodyweight |

STOT-single exposure : Not classified

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### Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

### 2-Ethylhexanol (104-76-7)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

### JOUST

|                      |                                 |
|----------------------|---------------------------------|
| Viscosity, kinematic | 46.95 mm <sup>2</sup> /s (20°C) |
|----------------------|---------------------------------|

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### 11.2.2 Other information

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.  
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

### JOUST

|  |  |
|--|--|
| EC50 48h crustacea                         | 1.5 mg/l Daphnia magna (Water flea)            |
| EC50 72h algae                             | 0.46 mg/l Skeletonema costatum (marine diatom) |
| NOEC, Eisenia fetida (Earthworm)           | 556 µl/kg, Dry soil                            |
| LD50, Apis mellifera (bee), acute, oral    | 427.7 µg/bee (48 Hours)                        |
| LD50, Apis mellifera (bee), acute, Contact | 80.10 µg/bee (48 Hours)                        |
| EC50, Lemna gibba (Duckweed); 7d; static   | > 0.511 mg/l (Growth rate)                     |

### Additional ecotoxicological information

### Prothioconazole (178928-70-6)

|                    |   |
|--------------------|---|
| LC50 96h fish      | 1.83 mg/l Oncorhynchus mykiss (Rainbow trout)   |
| EC50 48h crustacea | 1.3 mg/l Daphnia magna (Water flea)             |
| EC50 72h algae     | 32.78 µg/L Skeletonema costatum (marine diatom) |
| ErC50 algae        | > 0.1776 mg/l Lemna gibba (7d)                  |
| NOEC (chronic)     | 0.56 mg/l Daphnia magna (Water flea)            |
| NOEC chronic fish  | 0.436 mg/l Oncorhynchus mykiss (Rainbow trout)  |

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|                                     |                    |
|-------------------------------------|--------------------|
| LD50, Eisenia fetida (Earthworm)    | >1000g as hectare  |
| LD50, Apis mellifera (bee), oral    | > 71 µg/bee (48h)  |
| LD50, Apis mellifera (bee), Contact | > 200 µg/bee (48h) |

### Benzenesulfonic acid, dodecyl-, calcium salt (26264-06-2)

|               |   |
|---------------|---|
| LC50 96h fish | 10.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
|---------------|---|

### 2-Ethylhexanol (104-76-7)

|                    |  |
|--------------------|--|
| LC50 96h fish      | 32 – 37 mg/l Oncorhynchus mykiss (Rainbow trout) |
| LC50 96h fish      | > 7.5 mg/l Oncorhynchus mykiss (Rainbow trout)   |
| EC50 48h crustacea | 39 mg/l Daphnia magna (Water flea)               |
| EC50 72h algae     | 11.5 mg/l Desmodesmus subspicatus                |

## 12.2. Persistence and degradability

### JOUST

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

### Prothioconazole (178928-70-6)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

## 12.3. Bioaccumulative potential

### JOUST

|                           |                    |
|---------------------------|--------------------|
| Bioaccumulative potential | No available data. |
|---------------------------|--------------------|

### Prothioconazole (178928-70-6)

|   |                                      |
|---|--------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.4 pH 4; 2.0 pH 7; 0.2 pH 9 (25 °C) |
| Bioaccumulative potential                       | No bioaccumulation.                  |

### 2-Ethylhexanol (104-76-7)

|   |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 3.1 |
|---|-----|

## 12.4. Mobility in soil

### JOUST

|                  |                   |
|------------------|-------------------|
| Mobility in soil | No data available |
| Surface tension  | 30.65 mN/m        |

### Prothioconazole (178928-70-6)

|   |                             |
|---|-----------------------------|
| Mobility in soil                                | Slightly mobile in the soil |
| Surface tension                                 | 67.4 mN/m (20 °C)           |
| Partition coefficient n-octanol/water (Log Koc) | Koc = 1765                  |

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### 12.5. Results of PBT and vPvB assessment

#### JOUST

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### Component

Prothioconazole (178928-70-6)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW, EC 2000/532)

: 02 01 08\* - agrochemical waste containing dangerous substances

## SECTION 14: Transport information

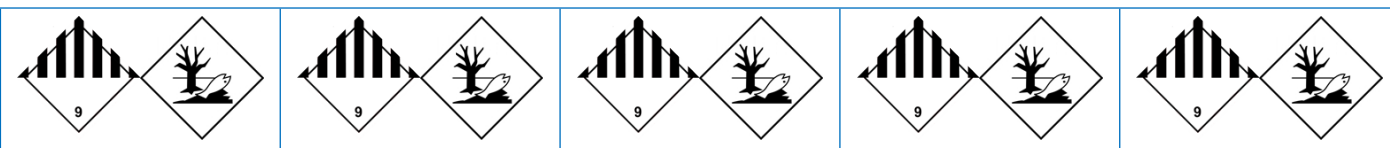
In accordance with ADR / IMDG / IATA / ADN / RID

| ADR  | IMDG  | IATA  | ADN   | RID   |
|--|---|---|---|---|
| <b>14.1. UN number or ID number</b>  |   |   |   |   |
| UN 3082  | UN 3082   | UN 3082   | UN 3082   | UN 3082   |
| <b>14.2. UN proper shipping name</b>   |   |   |   |   |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE)                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE)                                   | Environmentally hazardous substance, liquid, n.o.s. (PROTHIOCONAZOLE)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE)                 |
| <b>Transport document description (ADR)</b>  |   |   |   |   |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (PROTHIOCONAZOLE), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE), 9, III |
| <b>14.3. Transport hazard class(es)</b>  |   |   |   |   |
| 9  | 9   | 9   | 9   | 9   |

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### 14.4. Packing group

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| III | III | III | III | III |
|-----|-----|-----|-----|-----|

### 14.5. Environmental hazards

|                                     |   |                                     |                                     |                                     |
|-------------------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Dangerous for the environment : Yes | Dangerous for the environment : Yes<br>Marine pollutant : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes |
|-------------------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|

No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

|   |                           |
|---|---------------------------|
| Classification code (ADR)   | : M6                      |
| Special provisions (ADR)  | : 274, 335, 375, 601      |
| Limited quantities (ADR)  | : 5I                      |
| Excepted quantities (ADR)   | : E1                      |
| Packing instructions (ADR)  | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR)  | : PP1                     |
| Mixed packing provisions (ADR)  | : MP19                    |
| Portable tank and bulk container instructions (ADR)                     | : T4                      |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29               |
| Tank code (ADR)   | : LGBV                    |
| Vehicle for tank carriage   | : AT                      |
| Transport category (ADR)  | : 3                       |
| Special provisions for carriage - Packages (ADR)                        | : V12                     |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13                    |
| Hazard identification number (Kemler No.)                               | : 90                      |
| Orange plates   | :                         |



Tunnel restriction code (ADR) : -

#### Transport by sea

|                                   |                 |
|-----------------------------------|-----------------|
| Special provisions (IMDG)         | : 274, 335, 969 |
| Limited quantities (IMDG)         | : 5 L           |
| Excepted quantities (IMDG)        | : E1            |
| Packing instructions (IMDG)       | : P001, LP01    |
| Special packing provisions (IMDG) | : PP1           |
| IBC packing instructions (IMDG)   | : IBC03         |
| Tank instructions (IMDG)          | : T4            |
| Tank special provisions (IMDG)    | : TP2, TP29     |
| EmS-No. (Fire)                    | : F-A           |
| EmS-No. (Spillage)                | : S-F           |
| Stowage category (IMDG)           | : A             |

#### Air transport

|  |                   |
|--|-------------------|
| PCA Excepted quantities (IATA)               | : E1              |
| PCA Limited quantities (IATA)                | : Y964            |
| PCA limited quantity max net quantity (IATA) | : 30kgG           |
| PCA packing instructions (IATA)              | : 964             |
| PCA max net quantity (IATA)                  | : 450L            |
| CAO packing instructions (IATA)              | : 964             |
| CAO max net quantity (IATA)                  | : 450L            |
| Special provisions (IATA)                    | : A97, A158, A197 |

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ERG code (IATA) : 9L

**Inland waterway transport**

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

**Rail transport**

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T4

Portable tank and bulk container special provisions (RID) : TP1, TP29

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31

Colis express (express parcels) (RID) : CE8

Hazard identification number (RID) : 90

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Indication of changes: |               |          |          |
|------------------------|---------------|----------|----------|
| Section                | Changed item  | Change   | Comments |
|                        | Revision date | Modified |          |
|                        | Supersedes    | Modified |          |

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4  |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4   |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1                            |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment – Chronic Hazard, Category 1                          |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3                          |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| Skin Sens. 1B                       | Skin sensitisation, category 1B  |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H302                                | Harmful if swallowed.  |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.   |
| H318                                | Causes serious eye damage.   |
| H319                                | Causes serious eye irritation.   |
| H332                                | Harmful if inhaled.  |
| H335                                | May cause respiratory irritation.  |
| H400                                | Very toxic to aquatic life.  |
| H410                                | Very toxic to aquatic life with long lasting effects.                                      |
| H412                                | Harmful to aquatic life with long lasting effects.   |
| EUH401                              | To avoid risks to human health and the environment, comply with the instructions for use.  |

### NUFARM SDS TEMPLATE

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.