



# Difenoconazole 250 g/L EC

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Reference number: F1939aa, CA711527, CA701527  
Issue date: 7/6/2009 Date of revision: 8/9/2022 Supersedes version of: 3/23/2021 Version: 7.2

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

#### 1.1. Product identifier

Product form : Mixture  
Name : Difenoconazole 250 g/L EC

#### 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  
Industrial/Professional use spec : Plant protection products  
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

Arysta LifeScience Benelux S.P.R.L.  
Rue de Renory 26/1  
B-4102 Ougrée  
Belgium  
T +32 (0)4 385 97 11  
[EUR-SDS.info@upl-ltd.com](mailto:EUR-SDS.info@upl-ltd.com) - <http://www.upl-ltd.com/be>

#### 1.4. Emergency telephone number

Emergency number : Rest of the world (English): +44 1865 407333  
Europe (English): +44(0)1235 239670  
112 (European Emergency Number)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

|   |      |
|---|------|
| Acute toxicity (oral), Category 4                                 | H302 |
| Skin corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 2                     | H319 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |

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

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

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. Causes serious eye irritation. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) : Warning  
Contains : Difenoconazole, Hydrocarbons, C10-C13, aromatics, <1% naphthalene  
Hazard statements (CLP) : H302 - Harmful if swallowed.  
H315 - Causes skin irritation.

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|                                |  |
|--------------------------------|--|
| Precautionary statements (CLP) | : H319 - Causes serious eye irritation.<br>H411 - Toxic to aquatic life with long lasting effects.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P270 - Do not eat, drink or smoke when using this product.<br>P273 - Avoid release to the environment.<br>P280 - Wear eye protection.<br>P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.<br>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P330 - Rinse mouth.<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>P362 - Take off contaminated clothing and wash before reuse.<br>P391 - Collect spillage.<br>P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. |
| EUH-statements                 | : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.   |

### 2.3. Other hazards

Other hazards which do not result in classification : This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

| Component   |   |
|---|---|
| Hydrocarbons, C10-C13, aromatics, <1% naphthalene | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Iso-butanol (78-83-1)                             | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>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 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 at a concentration equal to or greater than 0,1 %

## 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] |
|---|---|---------|---|
| Hydrocarbons, C10-C13, aromatics, <1% naphthalene | EC-No.: 922-153-0<br>REACH-no: 01-2119451097-39 | 50 – 80 | Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066          |

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| Name                                   | Product identifier  | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--|---|----------|---|
| Difenoconazole                         | CAS-No.: 119446-68-3<br>EC-No.: 601-613-1   | 20 – 25  | Acute Tox. 4 (Oral), H302 (ATE=1453 mg/kg bodyweight)<br>Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=3.29 mg/l/4h)<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10)<br>EUH401 |
| Dodecylbenzene sulphonic acid, Ca salt | EC-No.: 932-231-6<br>REACH-no: 01-2119560592-37   | < 10     | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412  |
| (Z)-9-Octadecen-1-ol ethoxylated       | CAS-No.: 9004-98-2  | 2.5 – 10 | Eye Dam. 1, H318  |
| Iso-butanol                            | CAS-No.: 78-83-1<br>EC-No.: 201-148-0<br>EC Index-No.: 603-108-00-1<br>REACH-no: 01-2119484609-23 | < 2.5    | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H336<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 general            | : Call a physician immediately.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash skin with plenty of water.  |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Call a physician immediately.   |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after skin contact | : Repeated exposure may cause skin dryness or cracking. |
| Symptoms/effects after eye contact  | : Eye irritation.                                       |
| Symptoms/effects after ingestion    | : Risk of lung oedema.                                  |

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

Treat symptomatically.

## 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. |
|--------------------------------|--|

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### 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. Do not breathe 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.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : 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 locked up. Store in a well-ventilated place.  
Storage temperature : 0 – 40 °C

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

No additional information available

##### 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

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses

##### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Protective gloves

##### 8.2.2.3. Respiratory protection

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                  | : Liquid   |
| Colour  | : Yellow-brown.                                    |
| Appearance                                      | : clear.   |
| Odour   | : Characteristic.                                  |
| 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                                     | : 75 °C  |
| Auto-ignition temperature                       | : > 260 °C   |
| Decomposition temperature                       | : Not available                                    |
| pH  | : 6.5  |
| pH solution                                     | : 1 %  |
| Viscosity, kinematic                            | : 2.22 mm <sup>2</sup> /s (40°C)                   |
| Solubility                                      | : Not available                                    |
| 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                                | : 1.06   |
| Relative vapour density at 20 °C                | : Not available                                    |
| Particle size                                   | : Not applicable                                   |

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|                                |                  |
|--------------------------------|------------------|
| 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.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 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)       | : Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified        |
| Acute toxicity (inhalation) | : Not classified        |

| Difenoconazole 250 g/L EC    |                  |
|------------------------------|------------------|
| LD50 oral rat                | 300 – 2000 mg/kg |
| LD50 dermal rat              | > 2000 mg/kg     |
| LC50 Inhalation - Rat        | > 5 mg/l/4h      |
| Difenoconazole (119446-68-3) |                  |
| LD50 oral rat                | 1453 mg/kg       |
| LD50 oral                    | 1453 mg/kg       |
| LD50 dermal rabbit           | > 2010 mg/kg     |
| LD50 dermal                  | 2010 mg/kg       |

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| <b>Difenoconazole (119446-68-3)</b>                         |  |
|---|--|
| LC50 Inhalation - Rat                                       | > 3.3 mg/l/4h  |
| <b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b> |  |
| LD50 oral rat   | > 5000 mg/kg (OECD 401 method)   |
| LD50 dermal rabbit  | > 2000 mg/kg (OECD 403 method)   |
| LC50 Inhalation - Rat                                       | > 4688 mg/m <sup>3</sup> (maximum attainable concentration - zero mortality) (OECD 403 method) |
| <b>(Z)-9-Octadecen-1-ol ethoxylated (9004-98-2)</b>         |  |
| LD50 oral rat   | 2760 mg/kg   |
| <b>Iso-butanol (78-83-1)</b>                                |  |
| LD50 oral rat   | 2830 – 3350 mg/kg (male & female) (OECD 401 method)  |
| LD50 dermal rabbit  | 2460 mg/kg (female) (OECD 402 method)  |
| LD50 dermal   | > 2000 mg/kg (rabbit) (male) (OECD 402 method)   |
| LC0, Inhalation, rat  | > 18.2 mg/l (6 Hours)  |
| <b>Dodecylbenzene sulphonic acid, Ca salt</b>               |  |
| LD50 oral rat   | 4445 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other., 95% CL: 3913 - 5051  |
| LD50 dermal rat   | > 2000 mg/kg bodyweight OECD Guideline 402   |
| Skin corrosion/irritation                                   | : Causes skin irritation.<br>pH: 6.5   |
| Serious eye damage/irritation                               | : Causes serious eye irritation.<br>pH: 6.5  |
| Respiratory or skin sensitisation                           | : Not classified   |
| Germ cell mutagenicity                                      | : Not classified   |
| Carcinogenicity   | : Not classified   |
| Reproductive toxicity                                       | : Not classified   |
| STOT-single exposure  | : Not classified   |
| <b>Iso-butanol (78-83-1)</b>                                |  |
| STOT-single exposure  | May cause drowsiness or dizziness. May cause respiratory irritation.                           |
| STOT-repeated exposure                                      | : Not classified   |
| Aspiration hazard   | : Not classified   |
| <b>Difenoconazole 250 g/L EC</b>                            |  |
| Viscosity, kinematic  | 2.22 mm <sup>2</sup> /s (40°C)   |

### 11.2. Information on other hazards

No additional information available

## 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)  | : Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | : Toxic to aquatic life with long lasting effects.      |
| Not rapidly degradable                                    |   |

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| Difenoconazole 250 g/L EC |  |
|---------------------------|--|
| LC50 - Fish               | 1 – 10 mg/l                                      |
| EC50 - Crustacea          | 1 – 10 mg/l                                      |
| EC50 72h - Algae          | 1 – 10 mg/l                                      |
| ErC50 algae               | 1.2 mg/l (72h <i>Selenastrum capricornutum</i> ) |

| Difenoconazole (119446-68-3) |   |
|------------------------------|---|
| LC50 - Fish                  | 1.1 mg/l/96h EFSA report, Rainbow trout                 |
| EC50 - Crustacea             | 0.59 – 0.95 mg/l/48h <i>Daphnia magna</i> , EFSA report |
| ErC50 algae                  | 0.032 mg/l (72h <i>Desmodesmus subspicatus</i> )        |
| NOEC chronic fish            | 0.0076 mg/l 34d, Fathead minnow, EFSA report            |
| NOEC chronic crustacea       | 0.0056 mg/l (21d <i>Daphnia magna</i> )                 |

| Hydrocarbons, C10-C13, aromatics, <1% naphthalene            |   |
|--|---|
| LC50 - Fish  | 3.6 mg/l (96h, <i>Oncorhynchus mykiss</i> )                               |
| EC50 - Crustacea   | 1.1 mg/l (48h, <i>Daphnia magna</i> )                                     |
| ErC50 algae  | 7.9 mg/l 72h, <i>Pseudokirchneriella subcapitata</i>                      |
| LL50, fish, <i>Oncorhynchus mykiss</i>                       | 3.6 mg/l/96h (EPA OPP 72-1)   |
| EL50, aquatic invertebrates, <i>Daphnia magna</i>            | 1.1 mg/l/48h (EPA OPP 72-2)   |
| EL50, aquatic algae, <i>Pseudokirchneriella subcapitata</i>  | 7.9 mg/l/72h ((OECD 201 method))  |
| NOELR, fish, <i>Oncorhynchus mykiss</i>                      | 0.103 mg/l (28 days, Quantitative structure-activity relationship (QSAR)) |
| NOELR, aquatic invertebrates, <i>Daphnia magna</i>           | 0.179 mg/l (21 days, Quantitative structure-activity relationship (QSAR)) |
| NOELR, aquatic algae, <i>Pseudokirchneriella subcapitata</i> | 0.22 mg/l/72h ((OECD 201 method))   |

| Iso-butanol (78-83-1)  |                 |
|------------------------|-----------------|
| LC50 - Fish            | 1430 mg/l/96h   |
| EC50 - Crustacea       | 1100 mg/l/48h   |
| ErC50 algae            | 1799 mg/l/72h   |
| NOEC chronic crustacea | 20 mg/l 21 days |
| NOEC chronic algae     | 900 mg/l        |

| Dodecylbenzene sulphonic acid, Ca salt |  |
|--|--|
| LC50 - Fish                            | 1.67 mg/l Test organisms (species): <i>Lepomis macrochirus</i>   |
| EC50 - Crustacea                       | 2.9 mg/l Test organisms (species): <i>Daphnia magna</i>  |
| EC50 96h algae                         | 29 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> ) |
| NOEC (chronic)                         | 1.18 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'  |
| NOEC chronic fish                      | 0.23 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> ) Duration: '72 d'                                       |

## 12.2. Persistence and degradability

| Difenoconazole (119446-68-3)  |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |



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### Hydrocarbons, C10-C13, aromatics, <1% naphthalene

|                               |   |
|-------------------------------|---|
| Persistence and degradability | Readily biodegradable. 70 % biological degradation (28 days). (OECD 301F method). |
|-------------------------------|---|

### (Z)-9-Octadecen-1-ol ethoxylated (9004-98-2)

|                               |                |
|-------------------------------|----------------|
| Persistence and degradability | Biodegradable. |
|-------------------------------|----------------|

### 12.3. Bioaccumulative potential

#### Difenoconazole (119446-68-3)

|   |                               |
|---|-------------------------------|
| BCF - Fish [1]                                  | 330                           |
| Bioconcentration factor (BCF REACH)             | 330                           |
| Partition coefficient n-octanol/water (Log Pow) | 4.36 (pH=8;25°C), EFSA report |
| Bioaccumulative potential                       | There is no bioaccumulation.  |

#### Dodecylbenzene sulphonic acid, Ca salt

|   |                                  |
|---|----------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.89 (20 °C, Test method EU A.8) |
|---|----------------------------------|

### 12.4. Mobility in soil

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|                 |                  |
|-----------------|------------------|
| Surface tension | 36.1 mN/m (25°C) |
|-----------------|------------------|

#### Difenoconazole (119446-68-3)

|                 |                  |
|-----------------|------------------|
| Surface tension | 62.8 mN/m (20°C) |
|-----------------|------------------|

### 12.5. Results of PBT and vPvB assessment

#### Component

|   |   |
|---|---|
| Hydrocarbons, C10-C13, aromatics, <1% naphthalene | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Iso-butanol (78-83-1)                             | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Endocrine disrupting properties

No additional information available

### 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.

## SECTION 14: Transport information




In accordance with ADR / IMDG / IATA

| ADR                                 | IMDG    | IATA    |
|-------------------------------------|---------|---------|
| <b>14.1. UN number or ID number</b> |         |         |
| UN 3082                             | UN 3082 | UN 3082 |

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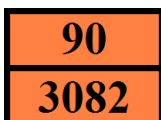
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR   | IMDG   | IATA   |
|---|--|--|
| <b>14.2. UN proper shipping name</b>  |  |  |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Difenoconazole)                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Difenoconazole)                                   | Environmentally hazardous substance, liquid, n.o.s. (Difenoconazole)                 |
| <b>Transport document description</b>   |  |  |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Difenoconazole), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Difenoconazole), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Difenoconazole), 9, III |
| <b>14.3. Transport hazard class(es)</b>   |  |  |
| 9   | 9  | 9  |
|          |                       |   |
| <b>14.4. Packing group</b>  |  |  |
| III   | III  | III  |
| <b>14.5. Environmental hazards</b>  |  |  |
| Dangerous for the environment: Yes  | Dangerous for the environment: Yes<br>Marine pollutant: 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 : -

#### Transport by sea

|                                   |                 |
|-----------------------------------|-----------------|
| Special provisions (IMDG)         | : 274, 335, 969 |
| Limited quantities (IMDG)         | : 5 L           |
| Excepted quantities (IMDG)        | : E1            |
| Packing instructions (IMDG)       | : LP01, P001    |
| Special packing provisions (IMDG) | : PP1           |

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|                                 |             |
|---------------------------------|-------------|
| IBC packing instructions (IMDG) | : IBC03     |
| Tank instructions (IMDG)        | : T4        |
| Tank special provisions (IMDG)  | : TP1, 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, A215 |
| ERG code (IATA)                              | : 9L                    |

### 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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment in Category Chronic 2

#### 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 |
|---------|--------------------------------|----------|----------|
|         | Special provisions (IMDG)      | Modified |          |
|         | Tank special provisions (IMDG) | Modified |          |
|         | Special provisions (IATA)      | Modified |          |
|         | Special provisions (RID)       | Modified |          |
|         | Supersedes                     | Modified |          |

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| Indication of changes |                             |          |          |
|-----------------------|-----------------------------|----------|----------|
| Section               | Changed item                | Change   | Comments |
|                       | Revision date               | Modified |          |
| 14.6                  | Packing instructions (IMDG) | Modified |          |
| 14.6                  | Special provisions (ADN)    | Modified |          |
| 14.6                  | Special provisions (ADR)    | Modified |          |

| Full text of H- and EUH-statements:    |   |
|--|---|
| Acute Tox. 4<br>(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 2                      | Hazardous to the aquatic environment – Chronic Hazard, Category 2                         |
| Aquatic Chronic 3                      | Hazardous to the aquatic environment – Chronic Hazard, Category 3                         |
| Asp. Tox. 1                            | Aspiration hazard, Category 1   |
| EUH066                                 | Repeated exposure may cause skin dryness or cracking.                                     |
| EUH401                                 | To avoid risks to human health and the environment, comply with the instructions for use. |
| Eye Dam. 1                             | Serious eye damage/eye irritation, Category 1   |
| Flam. Liq. 3                           | Flammable liquids, Category 3   |
| H226                                   | Flammable liquid and vapour.  |
| H302                                   | Harmful if swallowed.   |
| H304                                   | May be fatal if swallowed and enters airways.   |
| H315                                   | Causes skin irritation.   |
| H318                                   | Causes serious eye damage.  |
| H319                                   | Causes serious eye irritation.  |
| H332                                   | Harmful if inhaled.   |
| H335                                   | May cause respiratory irritation.   |
| H336                                   | May cause drowsiness or dizziness.  |
| H400                                   | Very toxic to aquatic life.   |
| H410                                   | Very toxic to aquatic life with long lasting effects.                                     |
| H411                                   | Toxic to aquatic life with long lasting effects.  |
| H412                                   | Harmful to aquatic life with long lasting effects.  |
| Skin Irrit. 2                          | Skin corrosion/irritation, Category 2   |
| STOT SE 3                              | Specific target organ toxicity – Single exposure, Category 3, Narcosis                    |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |      |                       |
|---|------|-----------------------|
| Acute Tox. 4 (Oral)   | H302 | On basis of test data |
| Skin Irrit. 2   | H315 |                       |
| Eye Irrit. 2  | H319 | Expert judgment       |
| Aquatic Chronic 2   | H411 |                       |

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Safety Data Sheet applicable for regions : EU - Europe

Safety Data Sheet (SDS), EU

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.