

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Diotrol aqua Industrie

Revision date:

Product code: 80010

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

#### 1.1. Product identifier

Diotrol aqua Industrie

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

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

##### Manufacturer

|               |                      |                             |
|---------------|----------------------|-----------------------------|
| Company name: | Maurolin AG          |                             |
| Street:       | Bodenackerstrasse 64 |                             |
| Place:        | CH-4657 Dulliken     |                             |
| Telephone:    | +41(0)62 285 30 70   | Telefax: +41(0)62 285 30 80 |
| e-mail:       | info@maurolin.ch     |                             |
| Internet:     | www.diotrol.com      |                             |

##### Supplier

|               |                            |
|---------------|----------------------------|
| Company name: | Diotrol AG                 |
| Street:       | Heuriedweg 30 A            |
| Place:        | D-88131 Lindau am Bodensee |
| Telephone:    | +49 (0)8382 88 99 310      |
| e-mail:       | info@diotrol.com           |
| Internet:     | www.diotrol.com            |

#### 1.4. Emergency telephone number:

CH EU Toxzentrum Zürich, telefon +41 44 251 51 51

### SECTION 2: Hazards identification

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

##### Regulation (EC) No. 1272/2008

Hazard categories:  
 Acute toxicity: Acute Tox. 4  
 Hazard Statements:  
 Harmful if inhaled.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

Neddecansäure, Cobaltsalz

Signal word: Warning

##### Pictograms:



##### Hazard statements

H332 Harmful if inhaled.

##### Precautionary statements

|           |  |
|-----------|--|
| P101      | If medical advice is needed, have product container or label at hand.      |
| P102      | Keep out of reach of children.   |
| P103      | Read label before use.   |
| P261      | Avoid breathing dust/fume/gas/mist/vapours/spray.                          |
| P271      | Use only outdoors or in a well-ventilated area.                            |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312      | Call a POISON CENTER/doctor if you feel unwell.                            |

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### Special labelling of certain mixtures

EUH208

Contains Neddecansäure, Cobaltsalz, 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No     | Chemical name  |              |                  | Quantity |
|------------|--|--------------|------------------|----------|
|            | EC No  | Index No     | REACH No         |          |
|            | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                  |              |                  |          |
| 1336-21-6  | Ammonia ... %  |              |                  | < 1 %    |
|            | 215-647-6  | 007-001-01-2 | 00-              |          |
|            | Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 1); H314 H400   |              |                  |          |
| 22464-99-9 | 2-Ethylhexansäure, Zirconium salt  |              |                  | < 1 %    |
|            | 245-018-1  |              |                  |          |
|            | Repr. 2; H361d   |              |                  |          |
| 98-73-7    | 4-tert-Butylbenzoic acid   |              |                  | < 1 %    |
|            | 202-696-3  | 607-698-00-1 |                  |          |
|            | Repr. 1B, Acute Tox. 4, STOT RE 1; H360F H302 H372   |              |                  |          |
| 68526-86-3 | Alcohols, C11-14-iso-, C13-rich  |              |                  | < 1 %    |
|            | 271-235-6  |              | 01-2119454259-32 |          |
|            | Aquatic Acute 1; H400  |              |                  |          |
| 27253-31-2 | Neddecansäure, Cobaltsalz  |              |                  | < 1 %    |
|            | 248-373-0  |              | 01-2119970733-31 |          |
|            | Repr. 2, Acute Tox. 1, Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 3; H361f H330 H302 H317 H412  |              |                  |          |
| 85203-81-2 | Hexansäure, 2-ethyl-, zinc salt, basic   |              |                  | < 1 %    |
|            | 286-272-3  |              | 01-2119979093-30 |          |
|            | Repr. 2, Eye Irrit. 2, Aquatic Chronic 3; H361d H319 H412  |              |                  |          |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one   |              |                  | < 0.1 %  |
|            | 220-120-9  | 613-088-00-6 |                  |          |
|            | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H302 H315 H318 H317 H400 |              |                  |          |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

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**After ingestion**

Rinse mouth immediately and drink plenty of water.

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

No information available.

**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**

Co-ordinate fire-fighting measures to the fire surroundings.

**5.2. Special hazards arising from the substance or mixture**

Non-flammable.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Advice on storage compatibility**

No special measures are necessary.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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#### Exposure limits (EH40)

| CAS No    | Substance          | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|-----------|--------------------|-----|-------------------|-----------|---------------|--------|
| 7664-41-7 | Ammonia, anhydrous | 25  | 18                |           | TWA (8 h)     | WEL    |
|           |                    | 35  | 25                |           | STEL (15 min) | WEL    |

#### 8.2. Exposure controls



##### Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

##### Eye/face protection

Wear eye protection/face protection.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### SECTION 9: Physical and chemical properties

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

|  |                |
|--|----------------|
| Physical state:                          | liquid         |
| Colour:                                  |                |
| pH-Value:                                | not determined |
| <b>Changes in the physical state</b>     |                |
| Melting point:                           | not determined |
| Initial boiling point and boiling range: | not determined |
| Flash point:                             | not determined |
| <b>Flammability</b>                      |                |
| Solid:                                   | not applicable |
| Gas:                                     | not applicable |
| Lower explosion limits:                  | not determined |
| Upper explosion limits:                  | not determined |
| <b>Auto-ignition temperature</b>         |                |
| Solid:                                   | not applicable |
| Gas:                                     | not applicable |
| Decomposition temperature:               | not determined |
| <b>Oxidizing properties</b>              |                |
| Not oxidising.                           |                |
| Vapour pressure:                         | not determined |

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Density: not determined

**Solubility in other solvents**

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

**9.2. Other information**

Solid content: not determined

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

none

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects****ATE<sub>mix</sub> calculated**

ATE (inhalative aerosol) 3.333 mg/l

**Acute toxicity**

| CAS No     | Chemical name  |              |           |        |        |
|------------|--|--------------|-----------|--------|--------|
|            | Exposure route   | Dose         | Species   | Source | Method |
| 98-73-7    | 4-tert-Butylbenzoic acid                                 |              |           |        |        |
|            | oral   | ATE<br>mg/kg | 500       |        |        |
| 27253-31-2 | Neddecansäure, Cobaltsalz                                |              |           |        |        |
|            | oral   | ATE<br>mg/kg | 500       |        |        |
|            | inhalative vapour  | ATE          | 0.05 mg/l |        |        |
|            | inhalative aerosol                                       | ATE<br>mg/l  | 0.005     |        |        |
| 2634-33-5  | 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one |              |           |        |        |
|            | oral   | ATE<br>mg/kg | 500       |        |        |

**Additional information on tests**

The mixture is classified as not hazardous according to Directive 1999/45/EC.

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## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No    | Chemical name            |              |           |         |                         |        |
|-----------|--------------------------|--------------|-----------|---------|-------------------------|--------|
|           | Aquatic toxicity         | Dose         | [h]   [d] | Species | Source                  | Method |
| 1336-21-6 | Ammonia ... %            |              |           |         |                         |        |
|           | Acute fish toxicity      | LC50<br>mg/l | 0,53      | 96 h    | Onchorhynchus<br>mykiss |        |
|           | Acute crustacea toxicity | EC50         | 24 mg/l   | 48 h    | Daphnia magna           |        |

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

| CAS No    | Chemical name | Log Pow |
|-----------|---------------|---------|
| 1336-21-6 | Ammonia ... % | -1,38   |

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.6. Special precautions for user

No information available.

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

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

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Entry 3: Ammonia ... %

Entry 30: 4-tert-Butylbenzoic acid

### National regulatory information

Water contaminating class (D): 3 - highly water contaminating

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Acute Tox. 4; H332 | Calculation method       |

### Relevant H and EUH statements (number and full text)

|        |   |
|--------|---|
| H302   | Harmful if swallowed.   |
| H314   | Causes severe skin burns and eye damage.  |
| H315   | Causes skin irritation.   |
| H317   | May cause an allergic skin reaction.  |
| H318   | Causes serious eye damage.  |
| H319   | Causes serious eye irritation.  |
| H330   | Fatal if inhaled.   |
| H332   | Harmful if inhaled.   |
| H360F  | May damage fertility.   |
| H361d  | Suspected of damaging the unborn child.   |
| H361f  | Suspected of damaging fertility.  |
| H372   | Causes damage to organs through prolonged or repeated exposure.   |
| H400   | Very toxic to aquatic life.   |
| H412   | Harmful to aquatic life with long lasting effects.  |
| EUH208 | Contains Neddecansäure, Cobaltsalz, 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction. |

### Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*