Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

### eConduct Copper 420500

Version 2.0

Revision Date 04.04.2024

Print Date 05.04.2024

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

### **1.1 Product identifier**

| Trade name      | : eConduct Copper 420500 |
|-----------------|--------------------------|
| Material number | : 010350GK2              |

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

This information is not available.

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

| Company                    | : ECKART GmbH            |
|----------------------------|--------------------------|
|                            | Guentersthal 4           |
|                            | 91235 Hartenstein        |
| Telephone                  | : +499152770             |
| Telefax                    | : +499152777008          |
| E-mail address             | : msds.eckart@altana.com |
| Responsible/issuing person |                          |

#### 1.4 Emergency telephone number

#### NCEC: (contract no.: ECKART29003-NCEC) +44 1235 239671 (Middle East/Africa, call and response in your language) +1 215 207 0061 (Americas, call and response in your language) +65 3158 1074 (Asia-Pacific, call and response in your language)

### **SECTION 2: Hazards identification**

#### **GHS Classification**

: Acute toxicity, Category 4, Oral, H302 Serious eye damage/eye irritation, Category 2A, H319 Short-term (acute) aquatic hazard, Category 1, H400

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|--------------------------|--|--|
|                          | Long-term (chronic) aquatic hazard, Ca   | ategory 1, H410  |
| GHS-Labelling            |  |  |
| Symbol(s)                |  |  |
| Signal word              | : Warning  |  |
| Hazard statements        | <ul> <li>H302: Harmful if swallowed.</li> <li>H319: Causes serious eye irritation.</li> <li>H410: Very toxic to aquatic life with lor</li> </ul> | ng lasting effects.  |
| Precautionary statements | Rinse mouth.   | en using this product.<br>ent.<br>tection.<br>ED: Get medical help.<br>Rinse cautiously with<br>ntact lenses, if present<br>s: Get medical help. |
| Hazardous components w   | hich must be listed on the label   |  |
| Identification<br>copper | CAS-No.<br>7440-50-8   |  |
| Other hazards which do n | ot result in classification  |  |
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Combustible Solids

### **SECTION 3: Composition/information on ingredients**

:

Substance No.

### Hazardous components

| Chemical name | CAS-No.<br>EINECS-No.  | Classification and labelling   | Concentration[%] |
|---------------|------------------------|--|------------------|
| copper        | 7440-50-8<br>231-159-6 | Acute Tox.;4;H302<br>;2A;H319<br>Aquatic Acute;1;H400<br>Aquatic<br>Chronic;1;H410 | 50 - 100         |
| silver        | 7440-22-4<br>231-131-3 | Aquatic Acute;1;H400<br>Aquatic<br>Chronic;1;H410                                  | 2,5 - 10         |

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

| General advice          | <ul> <li>Move the victim to fresh air.</li> <li>Move out of dangerous area.</li> <li>Show this safety data sheet to the doctor in attendance.</li> <li>Do not leave the victim unattended.</li> </ul> |  |
|-------------------------|---|--|
| If inhaled              | <ul> <li>If unconscious, place in recovery position and seek medical<br/>advice.</li> <li>If symptoms persist, call a physician.</li> </ul>   |  |
| In case of skin contact | : Wash off immediately with soap and plenty of water.   |  |
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|                        |   |                       |
| In case of eye contact | : Immediately flush eye(s) with plenty Remove contact lenses.   | of water.             |
|                        | Keep eye wide open while rinsing.<br>If eye irritation persists, consult a spe  |                       |
| If swallowed           | <ul> <li>Induce vomiting immediately and cal<br/>Keep respiratory tract clear.</li> <li>Do not give milk or alcoholic beverage</li> </ul> | Jes.                  |
|                        | Never give anything by mouth to an<br>If symptoms persist, call a physician   |                       |

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

This information is not available.

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

This information is not available.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

| Suitable extinguishing media   | : Special powder against metal fire, Dry sand, ABC powder |
|--------------------------------|---|
| Unsuitable extinguishing media | : Water, High volume water jet, Carbon dioxide (CO2)      |

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

| Specific hazards during :<br>firefighting | Do not allow run-off from fire fighting to enter drains or water courses. |
|---|---|
| 5.3 Advice for firefighters               |   |

# Special protective equipment : Wear self-contained breathing apparatus for firefighting if necessary.

| Further information : S | Standard procedure for chemical fires. |
|-------------------------|--|
|-------------------------|--|

Collect contaminated fire extinguishing water separately. This

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must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### **SECTION 6: Accidental release measures**

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

| Personal precautions | : Use personal protective equipment.<br>Evacuate personnel to safe areas.<br>Use personal protective equipment. |
|----------------------|---|
|                      | Avoid dust formation.<br>Avoid breathing dust.  |

#### 6.2 Environmental precautions

| General advice | <ul> <li>The product should not be allowed to enter drains, water<br/>courses or the soil.</li> <li>Prevent product from entering drains.</li> <li>Prevent further leakage or spillage if safe to do so.</li> </ul> |
|----------------|---|
|                | If the product contaminates rivers and lakes or drains inform respective authorities.   |

This information is not available.

### 6.3 Methods and materials for containment and cleaning up

| Methods for cleaning up | : Use mechanical handling equipment.                  |
|-------------------------|---|
|                         | Pick up and transfer to properly labelled containers. |
|                         | Keep in suitable, closed containers for disposal.     |

#### 6.4 Reference to other sections

For personal protection see section 8.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid creating dust. Routine housekeeping should be

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|   |     |  |   |  |
|   |     | instituted to ensure that dusts d  | o not accumulate on surfaces.   |  |
|   |     | Avoid formation of respirable pay<br>vapours/dust. Avoid contact with<br>protection see section 8. Smok<br>be prohibited in the application<br>accordance with local and natio | h skin and eyes. For personal<br>ing, eating and drinking should<br>area. Dispose of rinse water in |  |
| Advice on protection against : Normal measures for preventive fire protection. fire and explosion   |     |  | e fire protection.  |  |
|   |     | Avoid dust formation. Provide a at places where dust is formed.  |   |  |
| Hygiene measures : General industrial hygiene practice. Do not<br>hands before breaks and at the end of work<br>from food and drink. Keep away from tobac |     |  | end of workday. Keep away   |  |
|   |     | When using do not eat or drink.<br>Wash hands before breaks and  |   |  |
| 7.2 Conditions for safe storage,  | inc | luding any incompatibilities   |   |  |
| Requirements for storage areas and containers   | :   | Electrical installations / working the technological safety standa   |   |  |
|   |     | Keep away from sources of ign<br>store near combustible material<br>closed in a cool, well-ventilated<br>quality, do not store in heat or d                                    | s. Keep containers tightly place. To maintain product   |  |
|   |     | Keep container tightly closed in<br>place. Containers which are op<br>resealed and kept upright to pre<br>installations / working materials<br>technological safety standards. | ened must be carefully<br>event leakage. Electrical<br>must comply with the                         |  |
| Further information on storage conditions   | :   | Protect from humidity and wate   | r.  |  |
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|                          |  |                           |
|                          |  |                           |
| Advice on common storage | : Keep away from oxidizing agents, st<br>strongly acid materials in order to ave<br>Do not store together with oxidizing a | oid exothermic reactions. |
| Dampness                 | : Keep in a dry, cool and well-ventilate   | d place.                  |
| Other data               | : Keep in a dry place. No decompositi<br>as directed.  | on if stored and applied  |

### 7.3 Specific end use(s)

This information is not available.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Germany:

| Components          | CAS-No.               | Value type<br>(Form of<br>exposure) | Control parameters  | Update         | Basis       |  |  |
|---------------------|-----------------------|-------------------------------------|---|----------------|-------------|--|--|
| copper              | 7440-50-8             | AGW (inhalable fraction)            | 1 mg/m3   |                | DE TRGS 900 |  |  |
| silver              | 7440-22-4             | TWA                                 | 0,1 mg/m3   | 2000-06-16     | 2000/39/EC  |  |  |
| Further inform      | Further information   |                                     |   |                |             |  |  |
| silver              | 7440-22-4             | AGW (Inhalable fraction)            | 0,1 mg/m3   | 2006-01-01     | DE TRGS 900 |  |  |
| Peak-limit: exc     | Peak-limit: excursion |                                     | 8;(II)  |                |             |  |  |
| factor (categor     | factor (category)     |                                     |   |                |             |  |  |
| Further information |                       | place dangerous                     | sion for the review of<br>s for the health (MA<br>has established a lir<br>re possible) | K-commission). | European    |  |  |
| silver              | 7440-22-4             | TWA                                 | 0,01 mg/m3  | 2006-02-09     | 2006/15/EC  |  |  |

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| Further information |              | Indicative                          |                       |            |       |
|---------------------|--------------|-------------------------------------|-----------------------|------------|-------|
| nited States        | of America ( | USA):                               |                       |            |       |
| Components          | CAS-No.      | Value type<br>(Form of<br>exposure) | Control<br>parameters | Update     | Basis |
| copper              | 7440-50-8    | TWA                                 | 1 mg/m3               | 2008-01-01 |       |
| copper              | 7440-50-8    | TWA (dust and mists)                | 1 mg/m3               | 2005-09-01 |       |
| copper              | 7440-50-8    | TWA                                 | 1 mg/m3               | 1989-01-19 |       |
| copper              | 7440-50-8    | TWA                                 | 0,2 mg/m3             | 2008-01-01 |       |
| copper              | 7440-50-8    | TWA                                 | 0,1 mg/m3             | 1989-01-19 |       |
| copper              | 7440-50-8    | TWA (Dust and<br>mist)              | 1 mg/m3               | 2010-03-01 |       |
| copper              | 7440-50-8    | TWA (Fumes)                         | 0,2 mg/m3             | 2010-03-01 |       |
| copper              | 7440-50-8    | TWA (Dust)                          | 1 mg/m3               | 2013-10-08 |       |
| copper              | 7440-50-8    | TWA (Mist)                          | 1 mg/m3               | 2013-10-08 |       |
| copper              | 7440-50-8    | TWA (dusts and mists)               | 1 mg/m3               | 2011-07-01 |       |
| copper              | 7440-50-8    | TWA (Fumes)                         | 0,1 mg/m3             | 2011-07-01 |       |
| copper              | 7440-50-8    | PEL (Fumes)                         | 0,1 mg/m3             | 2014-11-26 |       |
| copper              | 7440-50-8    | TWA (Fumes)                         | 0,1 mg/m3             | 1989-01-19 |       |
| copper              | 7440-50-8    | TWA (Dust and<br>mist)              | 1 mg/m3               | 1989-01-19 |       |
| silver              | 7440-22-4    | TWA                                 | 0,1 mg/m3             | 2008-01-01 |       |
| silver              | 7440-22-4    | TWA (Dust)                          | 0,01 mg/m3            | 2005-09-01 |       |
| silver              | 7440-22-4    | TWA                                 | 0,01 mg/m3            | 1989-01-19 |       |
| silver              | 7440-22-4    | TWA                                 | 0,01 mg/m3            | 1989-01-19 |       |
| silver              | 7440-22-4    | TWA                                 | 0,01 mg/m3            | 2011-07-01 |       |
| silver              | 7440-22-4    | TWA (Dust and fume)                 | 0,1 mg/m3             | 2013-03-01 |       |
| silver              | 7440-22-4    | TWA (Dust)                          | 0,01 mg/m3            | 2013-10-08 |       |
| silver              | 7440-22-4    | PEL                                 | 0,01 mg/m3            | 2014-11-26 |       |

### 8.2 Exposure controls

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| Eye protection            | :     | Safety glasses  |
|---------------------------|-------|---|
|                           | :     | Tightly fitting safety goggles  |
|                           |       | Wear face-shield and protective suit for abnormal processing problems.  |
| Hand protection           |       |   |
| Material                  | :     | Leather   |
| Remarks                   | :     | Leather gloves  |
|                           |       | The choice of an appropriate glove does not only depend on<br>its material but also on other quality features and is different<br>from one producer to the other. |
|                           |       | The exact break through time can be obtained from the protective glove producer and this has to be observed.  |
|                           |       | Recommended preventive skin protection  |
|                           | :     | The suitability for a specific workplace should be discussed with the producers of the protective gloves.   |
| Skin and body protection  | :     | Long sleeved clothing   |
|                           |       | Safety shoes  |
|                           | :     | Dust impervious protective suit   |
|                           |       | Choose body protection according to the amount and concentration of the dangerous substance at the work place.  |
| Respiratory protection    | :     | Use suitable breathing protection if workplace concentration requires.  |
|                           |       | Respirator with a dust filter   |
|                           |       | P1 filter   |
| Environmental exposure co | ontro | ls  |
| General advice            | :     | The product should not be allowed to enter drains, water courses or the soil.   |
|                           | :     | Prevent product from entering drains.   |
|                           |       | Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform  |

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respective authorities.

### **SECTION 9: Physical and chemical properties**

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

|   | Appearance                          | : powder          |                                   |
|---|-------------------------------------|-------------------|-----------------------------------|
|   | Colour                              | : copper          |                                   |
|   | Odour                               | : characterist    | ic                                |
|   | рН                                  | : substance/      | mixture is non-soluble (in water) |
|   | Melting point/range                 | : 900 - 1 000     | °C                                |
|   | Boiling point/boiling range         | : Not applica     | ble                               |
|   | Flash point                         | : No data ava     | ailable                           |
|   | Bulk density                        | : No data ava     | ailable                           |
|   | Flammability (solid, gas)           | : Combustib       | e Solids                          |
|   |                                     |                   |                                   |
|   | Auto-flammability                   | : No data ava     | ailable                           |
|   | Upper explosion limit               | : No data ava     | ailable                           |
|   | Lower explosion limit               | : No data ava     | ailable                           |
|   | Vapour pressure                     | : No data ava     | ailable                           |
|   | Density                             | : 8,5 - 9,5 g/    | cm3                               |
|   | Solubility(ies)                     |                   |                                   |
|   | Water solubility                    | : insoluble       |                                   |
|   | Miscibility with water              | : immiscible      |                                   |
|   | Solubility in other solvents        | : No data ava     | ailable                           |
|   | Partition coefficient: n-octanol/wa | ter : No data ava | ailable                           |
|   | Ignition temperature                | : No data ava     | ailable                           |
|   | Thermal decomposition               | : No data ava     | ailable                           |
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| Viscosity, dynamic   | : | No data available |
|----------------------|---|-------------------|
| Viscosity, kinematic | : | No data available |
| Flow time            | : | No data available |

### 9.2 Other information

No data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

| 10.3 Possibility of hazardous reactions            |   |  |
|--|---|--|
| Hazardous reactions                                | : Stable under recommended storage conditions., No hazards to be specially mentioned. |  |
|  | No decomposition if stored and applied as directed.                                   |  |
|  | Dust may form explosive mixture in air.   |  |
| 10.4 Conditions to avoid                           |   |  |
| Conditions to avoid<br>10.5 Incompatible materials | : No data available   |  |
| Materials to avoid                                 | : No data available   |  |
| 10.6 Hazardous decomposition products              |   |  |
| Other information                                  | : No data available   |  |
|  |   |  |

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### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Acute toxicity

### Components:

#### copper:

Acute oral toxicity

: The component/mixture is moderately toxic after single ingestion.

#### Skin corrosion/irritation

### Product

May cause skin irritation in susceptible persons.

#### Serious eye damage/eye irritation

### Product

May cause irreversible eye damage.

### Respiratory or skin sensitisation

No data available

#### Carcinogenicity

No data available

### Toxicity to reproduction/fertility

No data available

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### Reprod.Tox./Development/Teratogenicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

#### Aspiration toxicity

No data available

#### Further information

#### **Product**

No data available

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Page

| <u>Components:</u><br>copper (7440-50-8) :<br>M-Factor<br>Ecotoxicology Assessment | : 10                                 |                      |
|--|--------------------------------------|----------------------|
| Short-term (acute) aquatic<br>hazard   | : Very toxic to aquatic life.        |                      |
| Long-term (chronic) aquatic<br>hazard<br>silver (7440-22-4) :                      | : Very toxic to aquatic life with lo | ong lasting effects. |
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| M-Factor<br>Ecotoxicology Assessment | : | 10  |
|--------------------------------------|---|---|
| Short-term (acute) aquatic<br>hazard | : | Very toxic to aquatic life.                           |
| Long-term (chronic) aquatic hazard   | : | Very toxic to aquatic life with long lasting effects. |

### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

### Product:

| Additional ecological | : | An environmental hazard cannot be excluded in the event of       |
|-----------------------|---|--|
| information           |   | unprofessional handling or disposal., Very toxic to aquatic life |
|                       |   | with long lasting effects.                                       |

### **SECTION 13: Disposal considerations**

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### 13.1 Waste treatment methods

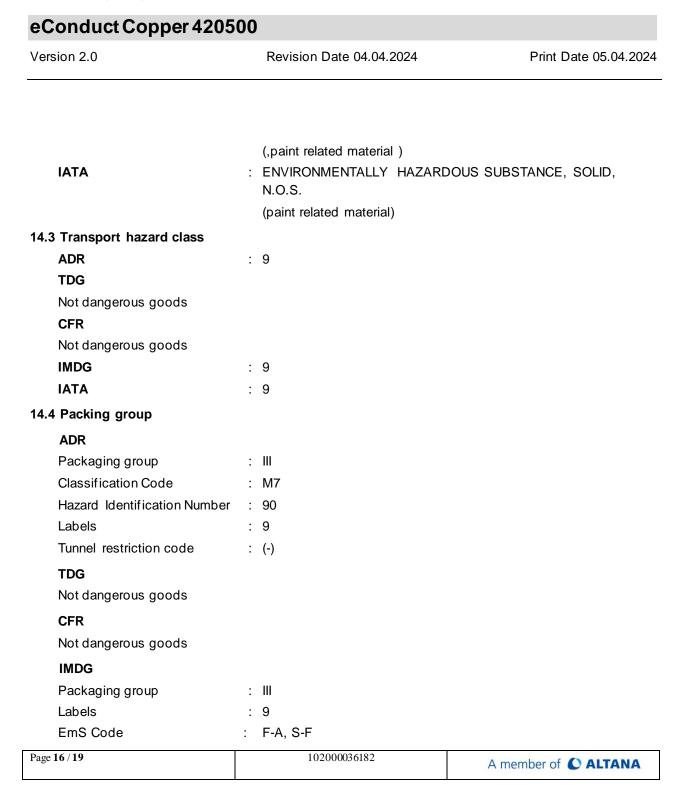
| Product                | <ul> <li>The product should not be allowed to enter drains, water<br/>courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with<br/>chemical or used container.</li> <li>Sond to a licensed waster management, company.</li> </ul> |
|------------------------|--|
| Contaminated packaging | <ul> <li>Send to a licensed waste management company.</li> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Do not re-use empty containers.</li> </ul>  |

### **SECTION 14: Transport information**

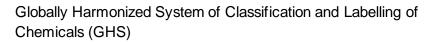
| 14.1 UN number            |  |
|---------------------------|--|
| ADR                       | : 3077   |
| TDG                       |  |
| Not dangerous goods       |  |
| CFR                       |  |
| Not dangerous goods       |  |
| IMDG                      | : 3077   |
| ΙΑΤΑ                      | : 3077   |
| 14.2 Proper shipping name |  |
| ADR                       | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,        |
|                           | N.O.S.   |
|                           | (paint related material)                             |
| TDG                       |  |
| Not dangerous goods       |  |
| CFR                       |  |
| Not dangerous goods       |  |
| IMDG                      | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
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| Packing instruction (cargo aircraft)     | : 956              |
|--|--------------------|
| Packing instruction (passenger aircraft) | : 956              |
| Packing instruction (LQ)                 | : Y956             |
| Packaging group                          | : III              |
| Labels                                   | : 9                |
| 14.5 Environmental hazards               |                    |
| IMDG                                     | : Marine pollutant |

| ADR | : Environmentally hazardou | IS |
|-----|----------------------------|----|

### 14.6 Special precautions for user

### IMDG Code- segregation group:

: IMDG Code segregation group 7 - Heavy metals and their salts

For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

### **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High : Not applicable Concern for Authorisation (Article 59).

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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# C ECKART

### eConduct Copper 420500

| Version 2.0   | Revision Date 04.04.  | 2024   | Print Date 05.04.2024 |
|---|---|--|-----------------------|
| REACH - List of substance<br>(Annex XIV)<br>Regulation (EC) No 1005/2<br>deplete the ozone layer<br>Regulation (EU) 2019/1021<br>pollutants (recast)<br>REACH - Restrictions on the | 009 on substances that<br>on persistent organic<br>ne manufacture, placing on | <ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul> |                       |
| the market and use of certa<br>mixtures and articles (Anne  | •   |  |                       |

### 15.2 Chemical safety assessment

No data available

### **SECTION 16: Other information**

### Full text of H-Statements

| H302 : | Harmful if swallowed.                                 |
|--------|---|
| H319 : | Causes serious eye irritation.                        |
| H400 : | Very toxic to aquatic life.                           |
| H410 : | Very toxic to aquatic life with long lasting effects. |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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