

# COD (LR) 0 - 150 mg/l prepared vials

## Safety Data Sheet

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

Date of issue: 23/11/2017 Revision date: 02/06/2025 Supersedes version of: 14/09/2023 Version: 1.4

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

#### 1.1. Product identifier

Product form : Mixture  
Name : COD (LR) 0 - 150 mg/l prepared vials  
Trade name : COD (LR) 0 - 150 mg/l prepared vials  
EC-No. : 231-639-5  
CAS-No. : 7664-93-9  
Product code : PHTR-DQL  
Formula : H2O4S

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

##### Relevant identified uses

Main use category : Laboratory use

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

No additional information available

#### 1.4. Emergency telephone number

| Country/Area   | Organisation/Company                                                                | Address                    | Emergency number | Comment |
|----------------|-------------------------------------------------------------------------------------|----------------------------|------------------|---------|
| United Kingdom | National Poisons Information Service<br>(Belfast Centre)<br>Royal Victoria Hospital | Grosvenor Road<br>BT12 6BA | 0344 892 0111    |         |

### SECTION 2: Hazards identification

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

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

Corrosive to metals, Category 1 H290  
Acute toxicity (oral), Category 4 H302  
Acute toxicity (inhal.), Category 4 H332  
Skin corrosion/irritation, Category 1A H314  
Germ cell mutagenicity, Category 1A H340  
Carcinogenicity (inhalation) Category 1A H350i  
Reproductive toxicity, Category 1A H360  
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of H and EUH statements: see section 16

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

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: Sulfuric acid  
; Dichromic Acid (Potassium dichromate/sulfuric acid); Mercuric Sulfate

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|                                |                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard statements (CLP)        | : H290 - May be corrosive to metals.<br>H302+H332 - Harmful if swallowed or if inhaled.<br>H314 - Causes severe skin burns and eye damage.<br>H340 - May cause genetic defects.<br>H350i - May cause cancer by inhalation.<br>H360 - May damage fertility or the unborn child.<br>H410 - Very toxic to aquatic life with long lasting effects.                              |
| Precautionary statements (CLP) | : P201 - Obtain special instructions before use.<br>P202 - Do not handle until all safety precautions have been read and understood.<br>P234 - Keep only in original packaging.<br>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P270 - Do not eat, drink or smoke when using this product. |

### 2.3. Other hazards

PBT: not relevant – no registration required

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component                                                                                     |                                                                  |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | Dichromic Acid (Potassium dichromate/sulfuric acid) (13530-68-2) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Dichromic Acid (Potassium dichromate/sulfuric acid) (13530-68-2) |

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

| Component                                                                                                                                                                                                                                                                                                                           |                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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 | Dichromic Acid (Potassium dichromate/sulfuric acid) (13530-68-2) |

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name          | Product identifier                                                                                  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------|-----------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------|
| Sulfuric acid | CAS-No.: 7664-93-9<br>EC-No.: 231-639-5<br>EC Index-No.: 016-020-00-8<br>REACH-no: 01-2119458838-20 | 86 – 96 | Met. Corr. 1, H290<br>Skin Corr. 1A, H314                       |
| Water         | CAS-No.: 7732-18-5<br>EC-No.: 231-791-2                                                             | 2 – 10  | Not classified                                                  |

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| Name                                                                                                                                                                                                                                                                                                                                     | Product identifier                                                    | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dichromic Acid (Potassium dichromate/sulfuric acid)<br>substance listed as REACH Candidate (Acids generated from chromium trioxide and their oligomers)<br>substance listed in REACH Annex XIV (Acids generated from chromium trioxide and their oligomers (Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid)) | CAS-No.: 13530-68-2<br>EC-No.: 236-881-5                              | 1 – 3   | Ox. Sol. 2, H272<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 1 (Inhalation), H330<br>Skin Corr. 1B, H314<br>Muta. 1B, H340<br>Carc. 1B, H350<br>Repr. 1B, H360<br>STOT RE 1, H372<br>Aquatic Chronic 1, H410 |
| Mercuric Sulfate                                                                                                                                                                                                                                                                                                                         | CAS-No.: 7783-35-9<br>EC-No.: 231-992-5<br>EC Index-No.: 080-002-00-6 | 0,5 – 2 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 2 (Inhalation:dust,mist), H330<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT RE 2, H373<br>Aquatic Chronic 1, H410                     |
| Silver sulfate                                                                                                                                                                                                                                                                                                                           | CAS-No.: 10294-26-5<br>EC-No.: 233-653-7                              | 0,5 – 2 | Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=1000)<br>Aquatic Chronic 1, H410 (M=100)                                                                                                                                                      |

### Specific concentration limits:

| Name          | Product identifier                                                                                  | Specific concentration limits (%)                                                                         |
|---------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Sulfuric acid | CAS-No.: 7664-93-9<br>EC-No.: 231-639-5<br>EC Index-No.: 016-020-00-8<br>REACH-no: 01-2119458838-20 | (5 ≤ C < 15) Eye Irrit. 2; H319<br>(5 ≤ C < 15) Skin Irrit. 2; H315<br>(15 ≤ C < 100) Skin Corr. 1A; H314 |

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            | : If you feel unwell, seek medical advice (show the label where possible).                                                                         |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Call a physician immediately. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. Get immediate medical advice/attention.                                          |
| First-aid measures after eye contact  | : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.                                                    |
| First-aid measures after ingestion    | : Drink plenty of water. Rinse mouth. Get immediate medical advice/attention.                                                                      |

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

No additional information available

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

Never give anything by mouth to an unconscious person.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Making extinguishing agents environment-friendly.

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

Fire hazard : Not flammable.

#### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment.

### SECTION 6: Accidental release measures

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

##### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

##### For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Stop release. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Collect spillage.  
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Keep containers closed.  
Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Use only outdoors or in a well-ventilated area.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.  
Incompatible materials : Heat sources. Direct sunlight.  
Storage area : Store away from heat.

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

Laboratory chemicals.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

| COD (LR) 0 - 150 mg/l prepared vials (7664-93-9)   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| IOEL TWA                                           | 0,05 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sulfuric acid (7664-93-9)                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| EU - Indicative Occupational Exposure Limit (IOEL) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Local name                                         | Sulphuric acid (mist)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| IOEL TWA                                           | 0,05 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| France - Occupational Exposure Limits              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Local name                                         | Acide sulfurique                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| VME (OEL TWA)                                      | 0,05 mg/m <sup>3</sup> (fraction thoracique)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| VLE (OEL Ceiling/STEL)                             | 3 mg/m <sup>3</sup> (fraction thoracique)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Remark                                             | VME règlementaire indicative; VLE recommandée/admise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Germany - Occupational Exposure Limits (TRGS 900)  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Local name                                         | Schwefelsäure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AGW (OEL TWA)                                      | 0,1 mg/m <sup>3</sup> E (mg/m <sup>3</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Remark                                             | DFG,EU,Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Italy - Occupational Exposure Limits               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Local name                                         | Acido solforico (nebulizzazione)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OEL TWA                                            | 0,05 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Portugal - Occupational Exposure Limits            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Local name                                         | Ácido sulfúrico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| OEL TWA                                            | 0,2 mg/m <sup>3</sup> T (Fração torácica)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Spain - Occupational Exposure Limits               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Local name                                         | Ácido sulfúrico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| VLA-ED (OEL TWA)                                   | 0,05 mg/m <sup>3</sup> niebla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Remark                                             | az (Al seleccionar un método adecuado de control de la exposición, deben tomarse en consideración posibles limitaciones e interferencias que pueden surgir en presencia de otros compuestos de azufre), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltase: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Base de datos de productos fitosanitarios <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> ), d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles). |

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### Sulfuric acid (7664-93-9)

#### United Kingdom - Occupational Exposure Limits

|                   |                                              |
|-------------------|----------------------------------------------|
| Local name        | Sulphuric acid                               |
| WEL TWA (OEL TWA) | 0,05 mg/m <sup>3</sup> mist                  |
| Remark            | The mist is defined as the thoracic fraction |

### Mercuric Sulfate (7783-35-9)

#### Spain - Occupational Exposure Limits

|                  |                         |
|------------------|-------------------------|
| VLA-ED (OEL TWA) | 0,025 mg/m <sup>3</sup> |
|------------------|-------------------------|

#### DNEL and PNEC

### COD (LR) 0 - 150 mg/l prepared vials (7664-93-9)

#### DNEL/DMEL (Workers)

|                                       |                        |
|---------------------------------------|------------------------|
| Acute - local effects, inhalation     | 0,1 mg/m <sup>3</sup>  |
| Long-term - local effects, inhalation | 0,05 mg/m <sup>3</sup> |

#### PNEC (Water)

|                          |              |
|--------------------------|--------------|
| PNEC aqua (freshwater)   | 0,0025 mg/l  |
| PNEC aqua (marine water) | 0,00025 mg/l |

#### PNEC (Sediment)

|                              |                 |
|------------------------------|-----------------|
| PNEC sediment (freshwater)   | 0,002 mg/kg dwt |
| PNEC sediment (marine water) | 0,002 mg/kg dwt |

#### PNEC (STP)

|                             |          |
|-----------------------------|----------|
| PNEC sewage treatment plant | 8,8 mg/l |
|-----------------------------|----------|

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Do not breathe gas/vapour.

### Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

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



### Eye and face protection

#### Eye protection:

Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

protective gloves

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### Respiratory protection

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use. Wash hands with water as a precaution.

## SECTION 9: Physical and chemical properties

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

|                                                 |                          |
|-------------------------------------------------|--------------------------|
| Physical state                                  | : Liquid                 |
| Colour                                          | : light orange.          |
| Appearance                                      | : Cloudy.                |
| Odour                                           | : Not available          |
| Odour threshold                                 | : Not available          |
| Melting point                                   | : Not available          |
| Freezing point                                  | : Not available          |
| Boiling point                                   | : Not available          |
| Flammability                                    | : Not flammable          |
| Lower explosion limit                           | : Not available          |
| Upper explosion limit                           | : Not available          |
| Flash point                                     | : Not available          |
| Auto-ignition temperature                       | : Not available          |
| Decomposition temperature                       | : < 100 °C               |
| pH                                              | : < 0,5                  |
| Viscosity, kinematic                            | : Not available          |
| Solubility                                      | : Miscible.              |
| Partition coefficient n-octanol/water (Log Kow) | : Not available          |
| Vapour pressure                                 | : 0,485 hPa Temp.: 20 °C |
| Vapour pressure at 50 °C                        | : Not available          |
| Density                                         | : Not available          |
| Relative density                                | : Not available          |
| Relative vapour density at 20 °C                | : Not available          |
| Particle characteristics                        | : Not applicable         |

### 9.2. Other information

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 of use.

### 10.3. Possibility of hazardous reactions

Caustic products.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

May be corrosive to metals.

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### 10.6. Hazardous decomposition products

Corrosive vapours.

## 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) : Harmful if inhaled.

#### COD (LR) 0 - 150 mg/l prepared vials (7664-93-9)

|                            |                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------|
| LD50 oral rat              | 2140 mg/kg bodyweight Animal: rat, 95% CL: 1540 - 2990                                |
| LD50 oral                  | 360 mg/kg female                                                                      |
| LD50 dermal rat            | 34898 mg/kg                                                                           |
| LC50 inhalation rat (mg/l) | 0,375 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| ATE CLP (vapours)          | 11 mg/l/4h                                                                            |
| ATE CLP (dust,mist)        | 1,5 mg/l/4h                                                                           |

#### Sulfuric acid (7664-93-9)

|               |            |
|---------------|------------|
| LD50 oral rat | 2140 mg/kg |
|---------------|------------|

#### Silver sulfate (10294-26-5)

|               |            |
|---------------|------------|
| LD50 oral rat | 5000 mg/kg |
|---------------|------------|

Skin corrosion/irritation : Causes severe skin burns.  
pH: < 0,5

#### Sulfuric acid (7664-93-9)

|    |     |
|----|-----|
| pH | < 1 |
|----|-----|

#### Mercuric Sulfate (7783-35-9)

|    |                  |
|----|------------------|
| pH | ≈ 1 50 g/l 20 °C |
|----|------------------|

#### Silver sulfate (10294-26-5)

|    |                        |
|----|------------------------|
| pH | 5 – 6 (5 g/l H2O sol.) |
|----|------------------------|

#### Water (7732-18-5)

|    |         |
|----|---------|
| pH | 5 – 6,5 |
|----|---------|

Serious eye damage/irritation : Assumed to cause serious eye damage  
pH: < 0,5

#### Sulfuric acid (7664-93-9)

|    |     |
|----|-----|
| pH | < 1 |
|----|-----|

#### Mercuric Sulfate (7783-35-9)

|    |                  |
|----|------------------|
| pH | ≈ 1 50 g/l 20 °C |
|----|------------------|

#### Silver sulfate (10294-26-5)

|    |                        |
|----|------------------------|
| pH | 5 – 6 (5 g/l H2O sol.) |
|----|------------------------|

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### Water (7732-18-5)

|                                   |                                             |
|-----------------------------------|---------------------------------------------|
| pH                                | 5 – 6,5                                     |
| Respiratory or skin sensitisation | : Not classified                            |
| Germ cell mutagenicity            | : May cause genetic defects.                |
| Carcinogenicity                   | : May cause cancer by inhalation.           |
| Reproductive toxicity             | : May damage fertility or the unborn child. |
| STOT-single exposure              | : Not classified                            |
| STOT-repeated exposure            | : Not classified                            |

### Dichromic Acid (Potassium dichromate/sulfuric acid) (13530-68-2)

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
|------------------------|-----------------------------------------------------------------|

### Mercuric Sulfate (7783-35-9)

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--------------------------------------------------------------------|

|                   |                  |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

### Water (7732-18-5)

|                      |             |
|----------------------|-------------|
| Viscosity, kinematic | 0,952 mm²/s |
|----------------------|-------------|

## 11.2. Information on other hazards

### Endocrine disrupting properties

|                                                                  |                  |
|------------------------------------------------------------------|------------------|
| Adverse health effects caused by endocrine disrupting properties | : Not applicable |
|------------------------------------------------------------------|------------------|

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                         |
|-----------------------------------------------------------|---------------------------------------------------------|
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                        |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

### COD (LR) 0 - 150 mg/l prepared vials (7664-93-9)

|                      |                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------|
| EC50 - Daphnia [1]   | > 100 mg/l Test organisms (species): Daphnia magna                                                    |
| EC50 72h - Algae [1] | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| NOEC (chronic)       | 0,15 mg/l Test organisms (species): other:Tanytarsus dissimilis                                       |
| NOEC chronic fish    | 0,31 mg/l Test organisms (species): Salvelinus fontinalis                                             |

### Silver sulfate (10294-26-5)

|                 |                                                        |
|-----------------|--------------------------------------------------------|
| LC50 - Fish [1] | 1,2 µg/l Test organisms (species): Pimephales promelas |
|-----------------|--------------------------------------------------------|

## 12.2. Persistence and degradability

### COD (LR) 0 - 150 mg/l prepared vials (7664-93-9)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

### Sulfuric acid (7664-93-9)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

### Dichromic Acid (Potassium dichromate/sulfuric acid) (13530-68-2)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

# COD (LR) 0 - 150 mg/l prepared vials

## Safety Data Sheet

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

### Mercuric Sulfate (7783-35-9)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

### Silver sulfate (10294-26-5)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

### Water (7732-18-5)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### COD (LR) 0 - 150 mg/l prepared vials (7664-93-9)

PBT: not relevant – no registration required

#### Component

|                                                                                              |                                                                  |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII | Dichromic Acid (Potassium dichromate/sulfuric acid) (13530-68-2) |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------|

|                                                                                               |                                                                  |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Dichromic Acid (Potassium dichromate/sulfuric acid) (13530-68-2) |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable.

### 12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or rivers.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.  
Waste treatment methods : wastes containing mercury. Must follow special treatment according to local regulation.

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 1830 |
| UN-No. (IMDG) | : UN 1830 |
| UN-No. (IATA) | : UN 1830 |
| UN-No. (ADN)  | : UN 1830 |
| UN-No. (RID)  | : UN 1830 |

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : SULPHURIC ACID |
| Proper Shipping Name (IMDG) | : SULPHURIC ACID |
| Proper Shipping Name (IATA) | : Sulphuric acid |

# COD (LR) 0 - 150 mg/l prepared vials

## Safety Data Sheet

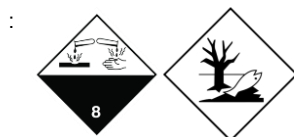
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|                                            |                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------|
| Proper Shipping Name (ADN)                 | : SULPHURIC ACID                                                            |
| Proper Shipping Name (RID)                 | : SULPHURIC ACID                                                            |
| Transport document description (ADR) (ADR) | : UN 1830 SULPHURIC ACID, 8, II, (E), ENVIRONMENTALLY HAZARDOUS             |
| Transport document description (IMDG)      | : UN 1830 SULPHURIC ACID, 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA)      | : UN 1830 Sulphuric acid, 8, II, ENVIRONMENTALLY HAZARDOUS                  |
| Transport document description (ADN)       | : UN 1830 SULPHURIC ACID, 8, II, ENVIRONMENTALLY HAZARDOUS                  |
| Transport document description (RID)       | : UN 1830 SULPHURIC ACID, 8, II, ENVIRONMENTALLY HAZARDOUS                  |

### 14.3. Transport hazard class(es)

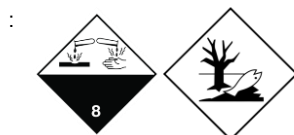
#### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 8 |
| Danger labels (ADR)              | : 8 |



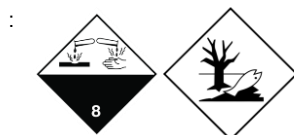
#### IMDG

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IMDG) | : 8 |
| Danger labels (IMDG)              | : 8 |



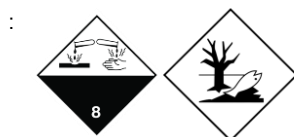
#### IATA

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IATA) | : 8 |
| Danger labels (IATA)              | : 8 |



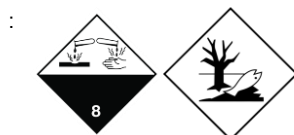
#### ADN

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADN) | : 8 |
| Danger labels (ADN)              | : 8 |



#### RID

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (RID) | : 8 |
| Danger labels (RID)              | : 8 |



### 14.4. Packing group

|                      |      |
|----------------------|------|
| Packing group (ADR)  | : II |
| Packing group (IMDG) | : II |
| Packing group (IATA) | : II |
| Packing group (ADN)  | : II |
| Packing group (RID)  | : II |

# COD (LR) 0 - 150 mg/l prepared vials

## Safety Data Sheet

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

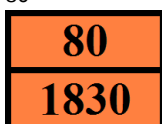
### 14.5. Environmental hazards

|                               |                                          |
|-------------------------------|------------------------------------------|
| Dangerous for the environment | : Yes                                    |
| Marine pollutant              | : Yes                                    |
| EmS-No. (Fire)                | : F-A                                    |
| EmS-No. (Spillage)            | : S-B                                    |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### Overland transport

|                                                           |               |
|-----------------------------------------------------------|---------------|
| Classification code (ADR)                                 | : C1          |
| Limited quantities (ADR)                                  | : 1I          |
| Excepted quantities (ADR)                                 | : E2          |
| Packing instructions (ADR)                                | : P001, IBC02 |
| Mixed packing provisions (ADR)                            | : MP15        |
| Portable tank and bulk container instructions (ADR)       | : T8          |
| Portable tank and bulk container special provisions (ADR) | : TP2         |
| Tank code (ADR)                                           | : L4BN        |
| Vehicle for tank carriage                                 | : AT          |
| Transport category (ADR)                                  | : 2           |
| Hazard identification number (Kemler No.)                 | : 80          |
| Orange plates                                             | :             |



|                               |      |
|-------------------------------|------|
| Tunnel restriction code (ADR) | : E  |
| EAC code                      | : 2P |

#### Transport by sea

|                                    |                                                                                                                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Limited quantities (IMDG)          | : 1 L                                                                                                                                                                                    |
| Excepted quantities (IMDG)         | : E2                                                                                                                                                                                     |
| Packing instructions (IMDG)        | : P001                                                                                                                                                                                   |
| IBC packing instructions (IMDG)    | : IBC02                                                                                                                                                                                  |
| IBC special provisions (IMDG)      | : B20                                                                                                                                                                                    |
| Tank instructions (IMDG)           | : T8                                                                                                                                                                                     |
| Tank special provisions (IMDG)     | : TP2                                                                                                                                                                                    |
| Stowage category (IMDG)            | : C                                                                                                                                                                                      |
| Stowage and handling (IMDG)        | : SW15                                                                                                                                                                                   |
| Segregation (IMDG)                 | : SGG1A, SG36, SG49                                                                                                                                                                      |
| Properties and observations (IMDG) | : Colourless, oily liquid, mixture over 1.41 up to 1.84 relative density. In the presence of moisture, highly corrosive to most metals. Causes burns to skin, eyes and mucous membranes. |

#### Air transport

|                                              |        |
|----------------------------------------------|--------|
| PCA Excepted quantities (IATA)               | : E2   |
| PCA Limited quantities (IATA)                | : Y840 |
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA)              | : 851  |
| PCA max net quantity (IATA)                  | : 1L   |
| CAO packing instructions (IATA)              | : 855  |
| CAO max net quantity (IATA)                  | : 30L  |
| ERG code (IATA)                              | : 8L   |

#### Inland waterway transport

|                                   |          |
|-----------------------------------|----------|
| Classification code (ADN)         | : C1     |
| Limited quantities (ADN)          | : 1 L    |
| Excepted quantities (ADN)         | : E2     |
| Carriage permitted (ADN)          | : T      |
| Equipment required (ADN)          | : PP, EP |
| Number of blue cones/lights (ADN) | : 0      |

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### Rail transport

|                                                           |               |
|-----------------------------------------------------------|---------------|
| Classification code (RID)                                 | : C1          |
| Limited quantities (RID)                                  | : 1L          |
| Excepted quantities (RID)                                 | : E2          |
| Packing instructions (RID)                                | : P001, IBC02 |
| Mixed packing provisions (RID)                            | : MP15        |
| Portable tank and bulk container instructions (RID)       | : T8          |
| Portable tank and bulk container special provisions (RID) | : TP2         |
| Tank codes for RID tanks (RID)                            | : L4BN        |
| Special provisions for RID tanks (RID)                    | : TU42        |
| Transport category (RID)                                  | : 2           |
| Colis express (express parcels) (RID)                     | : CE6         |
| Hazard identification number (RID)                        | : 80          |

### 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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) |                                                      |
|----------------------------------------|------------------------------------------------------|
| Reference code                         | Applicable on                                        |
| 3.                                     | Sulfuric acid                                        |
| 18.                                    | Mercuric Sulfate                                     |
| 3(b)                                   | COD (LR) 0 - 150 mg/l prepared vials ; Sulfuric acid |
| 3(c)                                   | COD (LR) 0 - 150 mg/l prepared vials                 |

##### REACH Annex XIV (Authorisation List)

Contains REACH Annex XIV substances: Acids generated from chromium trioxide and their oligomers (EC 236-881-5, CAS 13530-68-2)

##### REACH Candidate List (SVHC)

Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Acids generated from chromium trioxide and their oligomers (EC 236-881-5, CAS 13530-68-2)

##### PIC Regulation (Prior Informed Consent)

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.

##### POP Regulation (Persistent Organic Pollutants)

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

##### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Explosives Precursors Regulation (2019/1148)

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.

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### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

### National regulations

#### France

| Occupational diseases |                                                           |
|-----------------------|-----------------------------------------------------------|
| Code                  | Description                                               |
| RG 2                  | Occupational diseases caused by mercury and its compounds |

#### Germany

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water hazard class (WGK)                       | : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).                                                                                                                                                                                                                                                                                                                      |
| Chemicals Prohibition Ordinance (ChemVerbotsV) | : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10). |
| Hazardous Incident Ordinance (12. BImSchV)     | : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)                                                                                                                                                                                                                                                                                                                                   |

#### Netherlands

|                                                                                   |                                     |
|-----------------------------------------------------------------------------------|-------------------------------------|
| SZW-lijst van kankerverwekkende stoffen                                           | : Sulfuric acid is listed           |
| SZW-lijst van mutagene stoffen                                                    | : None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding   | : None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : None of the components are listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling   | : None of the components are listed |

#### Denmark

|                             |                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Danish National Regulations | : Young people below the age of 18 years are not allowed to use the product<br>Pregnant/breastfeeding women working with the product must not be in direct contact with the product<br>The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

| Full text of H- and EUH-statements: |                                                                   |
|-------------------------------------|-------------------------------------------------------------------|
| Acute Tox. 1 (Inhalation)           | Acute toxicity (inhal.), Category 1                               |
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2                  |
| Acute Tox. 3 (Dermal)               | Acute toxicity (dermal), Category 3                               |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3                                 |
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), 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 |
| Carc. 1B                            | Carcinogenicity, Category 1B                                      |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                     |

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| Full text of H- and EUH-statements: |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| Met. Corr. 1                        | Corrosive to metals, Category 1                                    |
| Muta. 1B                            | Germ cell mutagenicity, Category 1B                                |
| Ox. Sol. 2                          | Oxidising Solids, Category 2                                       |
| Repr. 1B                            | Reproductive toxicity, Category 1B                                 |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1A                             |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1B                             |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                              |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                     |
| STOT RE 1                           | Specific target organ toxicity — Repeated exposure, Category 1     |
| STOT RE 2                           | Specific target organ toxicity — Repeated exposure, Category 2     |
| H272                                | May intensify fire; oxidiser.                                      |
| H290                                | May be corrosive to metals.                                        |
| H301                                | Toxic if swallowed.                                                |
| H302                                | Harmful if swallowed.                                              |
| H311                                | Toxic in contact with skin.                                        |
| H312                                | Harmful in contact with skin.                                      |
| 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.                                                |
| H340                                | May cause genetic defects.                                         |
| H350                                | May cause cancer.                                                  |
| H350i                               | May cause cancer by inhalation.                                    |
| H360                                | May damage fertility or the unborn child.                          |
| H372                                | Causes damage to organs through prolonged or repeated exposure.    |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| H400                                | Very toxic to aquatic life.                                        |
| H410                                | Very toxic to aquatic life with long lasting effects.              |

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.