

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Cleanolyte CE 1 Material number 81.5051.1 Revision date:21.12.2022Version:16.2Replaces version:16.1Language:en-DEDate of print:21.12.2022Page:1 of 9

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

#### **1.1 Product identifier**

Trade name:

General use:

LIEI

7V00-70P2-100Q-FM81

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

Electrolytic/electrochemical metal marking. For Carbide, black-oxide parts and electro-chem (acid) cleaning.

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

Cleanolyte CE 1

| Company name:                           | Schilling Marking Systems GmbH   |  |
|---|----------------------------------|--|
| Street/POB-No .:                        | In Grubenäcker 1                 |  |
| Postal Code, city:                      | DE-78532 Tuttlingen              |  |
| WWW:                                    | www.schilling-marking.de         |  |
| E-mail:                                 | info@schilling-marking.de        |  |
| Telephone:                              | +49 (0)7461 9472-0               |  |
| Telefax:                                | +49 (0)7461 9472-28              |  |
| Department responsible for information: |                                  |  |
|   | Frau Bianca Schilling,           |  |
|   | Telephone: +49 (0)7461 9472-0    |  |
|   | Email: info@schilling-marking.de |  |

#### **1.4 Emergency telephone number**

GIZ-Nord, Germany Telephone: +49 (0)551-19240

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

#### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

Met. Corr. 1; H290 May be corrosive to metals.

#### 2.2 Label elements

#### Labelling (CLP)



| Signal word:              | Warning      |   |
|---------------------------|--------------|---|
| Hazard statements:        | H290         | May be corrosive to metals.   |
| Precautionary statements: | P101<br>P102 | If medical advice is needed, have product container or label at hand.<br>Keep out of reach of children. |
|                           | P234         | Keep only in original packaging.  |
|                           | P390         | Absorb spillage to prevent material damage.   |
|                           | P406         | Store only in corrosive resistant containers.   |
| Special labelling         |              |   |

#### Special labelling

Text for labelling:

Labelling for contents according to regulation (EC) No 648/2004, annex VII: Contains less than 5% anionic surfactant.



Cleanolyte CE 1 Material number 81.5051.1

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Revision date: 21.12.2022 Version: 16.2 Replaces version: 16.1 Language: en-DF Date of print: 21.12.2022 2 of 9 Page:

Eye contact: May cause irritations.

A corrosive effect cannot be ruled out because of the pH value.

Cleaning work: Product may release corrosive gases/vapours. Eye contact: May cause irritations.

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment: No data available

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

3.1 Substances: not applicable

2.3 Other hazards

#### 3.2 Mixtures

Additional information:

Chemical characterisation: A mixture of water, mineral acids and complexing agent

| Hazardous ing | redients: |
|---------------|-----------|
|---------------|-----------|

| Identifiers                       | Designation<br>Classification   | Content   |
|-----------------------------------|---|---|
| EC No. 231-633-2<br>CAS 7664-38-2 | Phosphoric acid<br>Met. Corr. 1; H290. Skin Corr. 1B; H3<br>Specific concentration limits (SCL):<br>Skin Corr. 1B; H314: C $\ge$ 25 % / Skin<br>H319: 10 % $\le$ C < 25 % | < 10 %<br>314.<br>Irrit. 2; H315: 10 % ≤ C < 25 % / Eye Irrit. 2; |

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

Labelling for contents according to regulation (EC) No 648/2004, annex VII: Contains less than 5% anionic surfactant.

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

#### 4.1 Description of first aid measures

| •                       |   |
|-------------------------|---|
| General information:    | Take off immediately all contaminated clothing and wash it before reuse.<br>If medical advice is needed, have product container or label at hand.   |
| In case of inhalation:  | Provide fresh air. Seek medical treatment in case of troubles.  |
| Following skin contact: | Immediately clean with water and soap and, if available, apply a generous amount of polyethylene glycol 400. In case of skin reactions, consult a physician.  |
| After eye contact:      | Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.<br>Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist. |
| After swallowing:       | Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.  |
|                         |   |

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

A corrosive effect cannot be ruled out because of the pH value. After eye contact: The product can cause irritation of the eyes.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Cleanolyte CE 1

Material number 81.5051.1

Revision date:21.12.2022Version:16.2Replaces version:16.1Language:en-DEDate of print:21.12.2022Page:3 of 9

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

On heating or in case of fire toxic gases may form. In the event of a fire, the following may be produced when the water evaporates: Phosphorus oxides.

Hydrogen may form upon contact with metals (danger of explosion!).

#### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Use water spray jet to knock down vapours.

Do not allow fire water to penetrate into surface or ground water.

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

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

Provide adequate ventilation. Avoid breathing vapours/spray.

Avoid contact with the substance. If possible, eliminate leakage. Wear appropriate protective equipment.

#### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. If necessary notify appropriate authorities.

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

Absorb spillage to prevent material damage. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Use soda or another alkaline detergent for removal of residues.

Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

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

#### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Work place should be equipped with a shower and an eye rinsing apparatus.

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

Requirements for storerooms and containers:

| Requirements for storerooms | and containers:  |
|-----------------------------|--|
|                             | Store containers tightly closed in a cool, dry, well ventilated area at temperatures not below 0°C |
|                             | °C.  |
|                             | Protect from frost.  |
|                             | Unsuitable materials: metal.   |
| Hints on joint storage:     | Keep away from food, drink and animal feedingstuffs.   |
|                             | Do not store together with: Alkalis, metallic oxides, iron, steel, aluminium, ferruginous          |
|                             | compounds  |
| Storage class:              | 12 = Non-combustible liquids   |

#### 7.3 Specific end use(s)

No information available.

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Cleanolyte CE 1 Material number 81.5051.1

01

 Revision date:
 21.12.2022

 Version:
 16.2

 Replaces version:
 16.1

 Language:
 en-DE

 Date of print:
 21.12.2022

 Page:
 4 of 9

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

#### 8.1 Control parameters

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Occupational exposure limit values:

n d

| CAS No.   | Designation     | Туре  | Limit value  |
|-----------|-----------------|---|--|
| 7664-38-2 | Phosphoric acid | Europe: IOELV: STEL<br>Europe: IOELV: TWA<br>Germany: TRGS 900 Kurzzeit<br>Germany: TRGS 900 Langzeit | 2 mg/m³<br>1 mg/m³<br>4 mg/m³ (inhalable fraction)<br>2 mg/m³ (inhalable fraction) |

#### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

#### Personal protection equipment

#### **Occupational exposure controls**

| Respiratory protection:       | In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.<br>Recommendation: Combination filtering device (EN 14387), filter type B-P2. |
|-------------------------------|---|
| Hand protection:              | Protective gloves according to EN 374.<br>Glove material: Nitrile rubber-Layer thickness: >= 0,35 mm<br>Possible alternatives: natural rubber, butyl caoutchouc (butyl rubber), fluoro rubber.<br>Breakthrough time: > 480 min.<br>Observe glove manufacturer's instructions concerning penetrability and breakthrough time.  |
| Eye protection:               | Tightly sealed goggles according to EN 166.   |
| Body protection:              | Wear suitable protective clothing.  |
| General protection and hygier | <ul> <li><sup>ne measures:</sup></li> <li>Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing.</li> <li>Take off immediately all contaminated clothing and wash it before reuse.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Wash hands thoroughly after handling.</li> <li>Work place should be equipped with a shower and an eye rinsing apparatus.</li> </ul>   |

#### **Environmental exposure controls**

Refer to "6.2 Environmental precautions".

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

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

| Physical state at 20 °C and 101.3 kPa         | liquid            |
|---|-------------------|
| Colour:                                       | colourless, clear |
| Odour:  | characteristic    |
| Odour threshold:                              | No data available |
| Melting point/freezing point:                 | approx. 0 °C      |
| Initial boiling point and boiling range:      | approx. 100 °C    |
| Flammability:                                 | No data available |
| Upper/lower flammability or explosive limits: | No data available |
| Flash point/flash point range:                | not combustible   |
| Decomposition temperature:                    | No data available |
| pH:   | at 20 °C: 1,6     |
| Viscosity, kinematic:                         | No data available |



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

# E 1

| Revision date: 21.12.2022 |            |  |  |
|---------------------------|------------|--|--|
| Version:                  | 16.2       |  |  |
| Replaces vers             | sion: 16.1 |  |  |
| Language:                 | en-DE      |  |  |
| Date of print:            | 21.12.2022 |  |  |
| Page:                     | 5 of 9     |  |  |

| С  | leanc        | olyte     | CE  |
|----|--------------|-----------|-----|
| Ma | terial numbe | er 81.505 | 1.1 |

| Water solubility:                       | at 20 °C: infinitely soluble |
|---|------------------------------|
| Partition coefficient: n-octanol/water: | No data available            |
| Vapour pressure:                        | No data available            |
| Density:                                | No data available            |
| Vapour density:                         | No data available            |
| Particle characteristics:               | Not applicable               |
| 9.2 Other information                   |                              |
| Explosive properties:                   | No data available            |
| Oxidizing characteristics:              | No data available            |
| Auto-ignition temperature:              | No data available            |
| Evaporation rate:                       | No data available            |
| Additional information:                 | No data available            |
|   |                              |

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

#### 10.1 Reactivity

May be corrosive to metals.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Hydrogen may form upon contact with metals (danger of explosion!).

#### 10.4 Conditions to avoid

Protect from excessive heat. Protect from frost.

#### 10.5 Incompatible materials

Alkalis, metallic oxides, iron, steel, aluminium, ferruginous compounds.

#### 10.6 Hazardous decomposition products

 No decomposition when used properly.

 Thermal decomposition:
 No data available



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Cleanolyte CE 1 Material number 81.5051.1

Revision date: 21.12.2022 Version: 16.2 Replaces version: 16.1 Language: en-DF Date of print: 21.12.2022 Page

6 of 9

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

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

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such. Acute toxicity (oral): Lack of data. Acute toxicity (dermal): Lack of data. Acute toxicity (inhalative): Lack of data. Skin corrosion/irritation: Lack of data. Serious eye damage/irritation: Lack of data. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Lack of data. Germ cell mutagenicity/Genotoxicity: Lack of data. Carcinogenicity: Lack of data. Reproductive toxicity: Lack of data. Effects on or via lactation: Lack of data. Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data. Aspiration hazard: Lack of data.

#### 11.2 Information on other hazards

Endocrine disrupting properties: No data available

Other information:

Information about Phosphoric acid (CAS No.: 7664-38-2): LD50 Rat oral (approx.): 2.600 mg/kg/bw LD50 Rabbit dermal: 2.740 mg/kg/bw

#### Symptoms

A corrosive effect cannot be ruled out because of the pH value. After eye contact: The product can cause irritation of the eyes.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value. Information about Phosphoric acid: Forms corrosive mixtures with water even if diluted. Fish toxicity: LC50 Gambusia affinis: 138 mg/L/96 h. Water Hazard Class: 1 = slightly hazardous to water

#### 12.2 Persistence and degradability

Further details:

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

**Cleanolyte CE 1** 

Material number 81.5051.1

#### **12.6 Endocrine disrupting properties**

No data available

### 12.7 Other adverse effects

| AOX reference:       | Product does not contain organically bound halogen (AOX).         |
|----------------------|---|
| General information: | Do not allow to enter into ground-water, surface water or drains. |

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

#### 13.1 Waste treatment methods

| Product |
|---------|
|         |

| Waste key number: | <ul> <li>11 01 06* = Wastes from chemical surface treatment and coating of metals and other materials: acids not otherwise specified</li> <li>* = Evidence for disposal must be provided.</li> </ul> |
|-------------------|--|
| Recommendation:   | Special waste. Dispose of waste according to applicable legislation.   |
| Package           |  |
| Waste key number: | 15 01 02 = Plastic packaging   |
| Recommendation:   | Dispose of waste according to applicable legislation.<br>Handle contaminated packages in the same way as the substance itself.   |

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

#### 14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:

UN 1805

#### 14.2 UN proper shipping name

ADR/RID, ADN, IATA-DGR: UN 1805, PHOSPHORIC ACID, SOLUTION UN 1805, PHOSPHORIC ACID SOLUTION

#### 14.3 Transport hazard class(es)

| ADR/RID, ADN: | Class 8, Code: C1  |
|---------------|--------------------|
| IMDG:         | Class 8, Subrisk - |
| IATA-DGR:     | Class 8            |

no

#### 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

#### 14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG:





according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

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Cleanolyte CE 1

Material number 81.5051.1

| Revision date: | 21.12.2022 |  |
|----------------|------------|--|
| Version:       | 16.2       |  |
| Replaces vers  | ion: 16.1  |  |
| Language:      | en-DE      |  |
| Date of print: | 21.12.2022 |  |
| Page:          | 8 of 9     |  |

#### 14.6 Special precautions for user

#### Land transport (ADR/RID)

| Warning board:  | ADR/RID: Kemmler-number 80, UN number UN 1805  |
|---|--|
| Hazard label:   | 8  |
| Limited quantities:   | 5 L  |
| EQ:   | E1   |
| Package - Instructions:   | P001 IBC03 LP01 R001   |
| Special provisions for packing together:  | MP19   |
| Portable tanks - Instructions:  | T4   |
| Portable tanks - Special Provisions:  | TP1  |
| Tank coding:  | L4BN   |
| Tunnel restriction code:  | E  |
| Inland waterway craft (ADN)   |  |
| Hazard label:   | 8  |
| Limited quantities:   | 5 L  |
| EQ:   | E1   |
| Transport permitted:  | Т  |
| Equipment necessary:  | PP - EP  |
| Sea transport (IMDG)  |  |
|   |  |
| EmS:  | F-A, S-B   |
| EmS:<br>Special Provisions:   | F-A, S-B<br>223  |
|   | F-A, S-B<br>223<br>5 L   |
| Special Provisions:   | 223  |
| Special Provisions:<br>Limited quantities:  | 223<br>5 L<br>E1   |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:  | 223<br>5 L   |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:   | 223<br>5 L<br>E1   |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:<br>Package - Provisions:  | 223<br>5 L<br>E1<br>P001, LP01<br>-  |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:<br>Package - Provisions:<br>IBC - Instructions:   | 223<br>5 L<br>E1<br>P001, LP01<br>-  |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:<br>Package - Provisions:<br>IBC - Instructions:<br>IBC - Provisions:  | 223<br>5 L<br>E1<br>P001, LP01<br>-  |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:<br>Package - Provisions:<br>IBC - Instructions:<br>IBC - Provisions:<br>Tank instructions - IMO:  | 223<br>5 L<br>E1<br>P001, LP01<br>-<br>IBC03<br>-  |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:<br>Package - Provisions:<br>IBC - Instructions:<br>IBC - Provisions:<br>Tank instructions - IMO:<br>Tank instructions - UN:   | 223<br>5 L<br>E1<br>P001, LP01<br>-<br>IBC03<br>-<br>-<br>T4   |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:<br>Package - Provisions:<br>IBC - Instructions:<br>IBC - Provisions:<br>Tank instructions - IMO:<br>Tank instructions - UN:<br>Tank instructions - Provisions:  | 223<br>5 L<br>E1<br>P001, LP01<br>-<br>IBC03<br>-<br>-<br>T4<br>TP1  |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:<br>Package - Provisions:<br>IBC - Instructions:<br>IBC - Provisions:<br>Tank instructions - IMO:<br>Tank instructions - UN:<br>Tank instructions - Provisions:<br>Stowage and handling:   | 223<br>5 L<br>E1<br>P001, LP01<br>-<br>IBC03<br>-<br>-<br>T4<br>TP1<br>Category A. SG36 SG49   |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:<br>Package - Provisions:<br>IBC - Instructions:<br>IBC - Provisions:<br>Tank instructions - IMO:<br>Tank instructions - UN:<br>Tank instructions - Provisions:<br>Stowage and handling:<br>Properties and observations:   | 223<br>5 L<br>E1<br>P001, LP01<br>-<br>IBC03<br>-<br>-<br>T4<br>TP1<br>Category A. SG36 SG49<br>Miscible in water. Mildly corrosive to most metals.      |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:<br>Package - Provisions:<br>IBC - Instructions:<br>IBC - Provisions:<br>IBC - Provisions:<br>Tank instructions - IMO:<br>Tank instructions - UN:<br>Tank instructions - Provisions:<br>Stowage and handling:<br>Properties and observations:<br>Segregation group:                                | 223<br>5 L<br>E1<br>P001, LP01<br>-<br>IBC03<br>-<br>-<br>T4<br>TP1<br>Category A. SG36 SG49<br>Miscible in water. Mildly corrosive to most metals.      |
| Special Provisions:<br>Limited quantities:<br>Excepted quantities:<br>Package - Instructions:<br>Package - Provisions:<br>IBC - Instructions:<br>IBC - Provisions:<br>Tank instructions - IMO:<br>Tank instructions - IMO:<br>Tank instructions - UN:<br>Tank instructions - Provisions:<br>Stowage and handling:<br>Properties and observations:<br>Segregation group:<br>Air transport (IATA) | 223<br>5 L<br>E1<br>P001, LP01<br>-<br>IBC03<br>-<br>-<br>T4<br>TP1<br>Category A. SG36 SG49<br>Miscible in water. Mildly corrosive to most metals.<br>1 |

| nazara labon                            | 001103170                                |
|---|--|
| Excepted Quantity Code:                 | E1                                       |
| Passenger and Cargo Aircraft: Ltd.Qty.: | Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L |
| Passenger and Cargo Aircraft:           | Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L  |
| Cargo Aircraft only:                    | Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L |
| Special Provisions:                     | A3 A803                                  |
| Emergency Response Guide-Code (ERG):    | 8L                                       |
|   |  |

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

No data available

## **SECTION 15: Regulatory information**

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

#### National regulations - Germany

Storage class: 12 = Non-combustible liquids

Water Hazard Class: 1 = slightly hazardous to water

Information on working limitations:

Observe employment restrictions for young people.



according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

**Cleanolyte CE 1** 

Material number 81.5051.1

Further regulations, limitations and legal requirements: No data available

#### National regulations - EC member states

Further regulations, limitations and legal requirements:

No data available

#### **15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment is not required.

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

| Wording of the H-phrases under | paragraph 2 and 3: |
|--------------------------------|--------------------|
|--------------------------------|--------------------|

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

| Reason of change:              | General revision  |
|--------------------------------|---|
| Date of first version:         | 28.7.2008   |
| Department issuing data sheet: | see section 1: Department responsible for information   |
| Abbreviations and acronyms:    | ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road |

AOX: Adsorbable Organic Halogens AS/NZS: Australian Standards/New Zealand Standards CAS: Chemical Abstracts Service CFR: Code of Federal Regulations CLP: Classification, Labelling and Packaging DMEL: Derived minimal effect level DNEL: Derived no-effect level EC: European Community EN: European Standard EQ: Excepted quantities EU: European Union IATA: International Air Transport Association IATA-DGR: International Air Transport Association – Dangerous Goods Regulations IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IMDG Code: International Maritime Dangerous Goods Code LC50: Median lethal concentration LD50: Lethal dose 50% MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships Met. Corr.: Corrosive to metals OEL: Occupational Exposure Limit Value OSHA: Occupational Safety and Health Administration PBT: Persistent bioaccumulative and toxic PNEC: Predicted no-effect concentration RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail Skin Corr · Skin corrosion TLV: Threshold Limit Value TRGS: Technical Rules for Hazardous Substances UN: United Nations vPvB: Very persistent and very bioaccumulative WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.