



# Beer Line Cleaner

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 11/05/2015 Revision date: 27/04/2026 Supersedes version of: 19/08/2021 Version: 13.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Beer Line Cleaner  
UFI : E5K8-W0CY-1008-0UJS  
Product code : 31/00

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

##### Relevant identified uses

Industrial/Professional use spec : For professional use only  
Use of the substance/mixture : Cleaning Product

##### Uses advised against

Restrictions on use : Anything other than intended use as listed on the label.

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

##### Supplier

Greyland Ltd  
Tameside Park Industrial Estate  
Fifth Avenue  
Dukinfield  
SK16 4PP  
UK  
Tel: +44 (0) 161 343 3830  
Fax: +44 (0) 161 343 0608  
Email: sales@greyland.co.uk

##### Supplier

Greyland Europe Limited  
13a Ballyhoy Avenue  
Raheny  
Dublin 5  
Tel: +44 (0) 161 343 3830  
E-mail: sales@greyland.co.uk

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 161 343 3830  
Monday - Friday (08:00 - 16:30)

| Country/Area   | Organisation                                                                                        | Emergency number                                                                             |
|----------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Ireland        | National Poisons Information Centre.<br>Beaumont Hospital.<br>PO Box 1297. Beaumont Road 9.         | +353 1 809 2566 (Healthcare professionals-24/7)<br>+353 1 809 2166 (public, 8am - 10pm, 7/7) |
| United Kingdom | National Poisons Information Service (Birmingham Centre).<br>City Hospital.<br>Dudley Road B18 7QH. | 0344 892 0111<br>Only for healthcare professionals                                           |

### SECTION 2: Hazards identification

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

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

Skin corrosion/irritation, Category 1 H314  
Serious eye damage/eye irritation, Category 1 H318  
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400  
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

Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

# Beer Line Cleaner

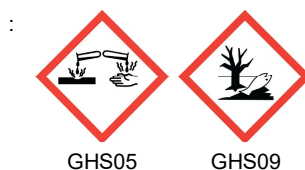
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### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Contains : sodium hydroxide; caustic soda; sodium hypochlorite, solution... % Cl active

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P280 - Wear eye protection, protective gloves.  
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.  
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.  
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P391 - Collect spillage.

### 2.3. Other hazards

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name                                                                                              | Product identifier                                                                                  | %              | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                           |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------|
| sodium hydroxide; caustic soda<br>substance with national workplace exposure limit(s)<br>(IE, GB) | CAS-No.: 1310-73-2<br>EC-No.: 215-185-5<br>EC Index-No.: 011-002-00-6<br>REACH-no: 01-2119457892-27 | $\geq 1 - < 5$ | Skin Corr. 1A, H314                                                                                       |
| sodium hypochlorite, solution... % Cl active                                                      | CAS-No.: 7681-52-9<br>EC-No.: 231-668-3<br>EC Index-No.: 017-011-00-1<br>REACH-no: 01-2119488154-34 | $\geq 1 - < 5$ | Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) |

#### Specific concentration limits:

| Name                           | Product identifier                                                                                  | Specific concentration limits (%)                                                                                                                                      |
|--------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sodium hydroxide; caustic soda | CAS-No.: 1310-73-2<br>EC-No.: 215-185-5<br>EC Index-No.: 011-002-00-6<br>REACH-no: 01-2119457892-27 | (0.5 $\leq$ C < 2) Skin Irrit. 2; H315<br>(0.5 $\leq$ C < 2) Eye Irrit. 2; H319<br>(2 $\leq$ C < 5) Skin Corr. 1B; H314<br>(5 $\leq$ C $\leq$ 100) Skin Corr. 1A; H314 |

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| Specific concentration limits:               |                                                                                                     |                                   |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------|
| Name                                         | Product identifier                                                                                  | Specific concentration limits (%) |
| sodium hypochlorite, solution... % Cl active | CAS-No.: 7681-52-9<br>EC-No.: 231-668-3<br>EC Index-No.: 017-011-00-1<br>REACH-no: 01-2119488154-34 | (5 ≤ C ≤ 100) EUH031              |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Call a physician immediately.                                                                                                                      |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                                                                     |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.                                        |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Call a physician immediately.                                                                                 |
| Self protection of the first-aider    | : First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).                   |

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

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation   | : None under normal conditions. |
| Symptoms/effects after skin contact | : Burns.                        |
| Symptoms/effects after eye contact  | : Serious damage to eyes.       |
| Symptoms/effects after ingestion    | : Burns.                        |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6: Accidental release measures

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

|                  |                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.<br>Absorb spillage to prevent material damage. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

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### For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

### For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

## 6.2. Environmental precautions

Avoid release to the environment.

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

- For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Store locked up.
- Incompatible products : Oxidizing agent. Strong bases. Strong acids.
- Special rules on packaging : Store in a closed container. Keep only in original container.
- Packaging materials : Always store product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| sodium hydroxide; caustic soda (1310-73-2) |                                                             |
|--------------------------------------------|-------------------------------------------------------------|
| Ireland - Occupational Exposure Limits     |                                                             |
| Local name                                 | Sodium hydroxide                                            |
| OEL STEL                                   | 2 mg/m <sup>3</sup>                                         |
| Remark                                     | Advisory OELV (Advisory Occupational Exposure Limit Values) |
| Regulatory reference                       | Chemical Agents Code of Practice 2024                       |

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### sodium hydroxide; caustic soda (1310-73-2)

#### United Kingdom - Occupational Exposure Limits

|                      |                                       |
|----------------------|---------------------------------------|
| Local name           | Sodium hydroxide                      |
| WEL STEL (OEL STEL)  | 2 mg/m <sup>3</sup>                   |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

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



#### Eye and face protection

##### Eye protection:

Use eye protection according to EN 166. Safety glasses

#### Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Wear protective gloves. Chemical resistant gloves (according to European standard ISO 374-1 or equivalent)

#### Respiratory protection

##### Respiratory protection:

Not required for normal conditions of use

#### Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

##### Other information:

A risk assessment should be carried out prior to use to determine the exposure risk to the chemical. Specific work environments and material handling practices may vary; therefore, safety procedures should be developed and PPE selected for each intended application. Consultation with PPE supplier/manufacturer will help determine suitability as protection time cannot be accurately estimated for mixtures (such as glove breakthrough time). PPE should be worn to prevent any contact with the chemical. Any contaminated clothing should be washed prior to re-use.

## SECTION 9: Physical and chemical properties

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

|                       |                  |
|-----------------------|------------------|
| Physical state        | : Liquid         |
| Colour                | : light yellow.  |
| Odour                 | : Hypochlorite.  |
| Odour threshold       | : Not available  |
| Melting point         | : Not applicable |
| Freezing point        | : Not available  |
| Boiling point         | : Not available  |
| Flammability          | : Non flammable  |
| Lower explosion limit | : Not available  |
| Upper explosion limit | : Not available  |

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|                                                 |                  |
|-------------------------------------------------|------------------|
| Flash point                                     | : Not available  |
| Auto-ignition temperature                       | : Not available  |
| Decomposition temperature                       | : Not available  |
| pH                                              | : > 11.5         |
| Viscosity, kinematic                            | : Not available  |
| Solubility                                      | : Not available  |
| Partition coefficient n-octanol/water (Log Kow) | : Not available  |
| Vapour pressure                                 | : Not available  |
| Vapour pressure at 50°C                         | : Not available  |
| Density                                         | : 1.09 – 1.1     |
| 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.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### sodium hypochlorite, solution... % Cl active (7681-52-9)

|                                   |                                                                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| LD50 dermal rabbit                | > 20000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:16 CFR 1500.40 |
| Skin corrosion/irritation         | : Causes severe skin burns.<br>pH: > 11.5                                                                                       |
| Serious eye damage/irritation     | : Causes serious eye damage.<br>pH: > 11.5                                                                                      |
| Respiratory or skin sensitisation | : Not classified                                                                                                                |
| Germ cell mutagenicity            | : Not classified                                                                                                                |
| Carcinogenicity                   | : Not classified                                                                                                                |
| Reproductive toxicity             | : Not classified                                                                                                                |
| STOT-single exposure              | : Not classified                                                                                                                |

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STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.  
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

#### sodium hydroxide; caustic soda (1310-73-2)

|                      |                                                      |
|----------------------|------------------------------------------------------|
| EC50 - Crustacea [1] | 40.4 mg/l Test organisms (species): Ceriodaphnia sp. |
|----------------------|------------------------------------------------------|

#### sodium hypochlorite, solution... % Cl active (7681-52-9)

|                      |                                                                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| EC50 - Crustacea [1] | 141 µg/l Test organisms (species): Daphnia magna                                                                                            |
| EC50 - Crustacea [2] | 35 µg/l Test organisms (species): Ceriodaphnia dubia                                                                                        |
| EC50 72h - Algae [1] | 0.0365 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 0.0183 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

### 12.2. Persistence and degradability

#### Beer Line Cleaner

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

#### sodium hydroxide; caustic soda (1310-73-2)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### sodium hypochlorite, solution... % Cl active (7681-52-9)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not 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

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

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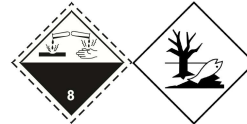
### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                                                                                                                                                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                                                                                                 |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                                                                                                                                                                    |
| Product/Packaging disposal recommendations | : Wash packaging with a suitable cleaner (water) before recycling. Otherwise dispose of as contaminated packaging. Always dispose of packaging in accordance with local regulations. Disposal must be done according to official regulations. |
| Additional information                     | : Do not re-use empty containers.                                                                                                                                                                                                             |
| Ecological waste information               | : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.       |
| European List of Waste (LoW, EC 2000/532)  | : 20 01 29* - detergents containing dangerous substances<br>15 01 10* - packaging containing residues of or contaminated by dangerous substances                                                                                              |

### SECTION 14: Transport information

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

| ADR                                                                                                                                                           | IMDG                                                                                                                                                                      | IATA                                                                                                                                                     | ADN                                                                                                                                                      | RID                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>14.1. UN number or ID number</b>                                                                                                                           |                                                                                                                                                                           |                                                                                                                                                          |                                                                                                                                                          |                                                                                                                                                          |
| UN 1719                                                                                                                                                       | UN 1719                                                                                                                                                                   | UN 1719                                                                                                                                                  | UN 1719                                                                                                                                                  | UN 1719                                                                                                                                                  |
| <b>14.2. UN proper shipping name</b>                                                                                                                          |                                                                                                                                                                           |                                                                                                                                                          |                                                                                                                                                          |                                                                                                                                                          |
| CAUSTIC ALKALI LIQUID, N.O.S. (sodium hypochlorite, solution... % Cl active ; sodium hydroxide; caustic soda)                                                 | CAUSTIC ALKALI LIQUID, N.O.S. (sodium hypochlorite, solution... % Cl active ; sodium hydroxide; caustic soda)                                                             | Caustic alkali liquid, n.o.s. (sodium hypochlorite, solution... % Cl active ; sodium hydroxide; caustic soda)                                            | CAUSTIC ALKALI LIQUID, N.O.S. (sodium hypochlorite, solution... % Cl active ; sodium hydroxide; caustic soda)                                            | CAUSTIC ALKALI LIQUID, N.O.S. (sodium hypochlorite, solution... % Cl active ; sodium hydroxide; caustic soda)                                            |
| <b>Transport document description</b>                                                                                                                         |                                                                                                                                                                           |                                                                                                                                                          |                                                                                                                                                          |                                                                                                                                                          |
| UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (sodium hypochlorite, solution... % Cl active ; sodium hydroxide; caustic soda), 8, III, (E), ENVIRONMENTALLY HAZARDOUS | UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (sodium hypochlorite, solution... % Cl active ; sodium hydroxide; caustic soda), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1719 Caustic alkali liquid, n.o.s. (sodium hypochlorite, solution... % Cl active ; sodium hydroxide; caustic soda), 8, III, ENVIRONMENTALLY HAZARDOUS | UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (sodium hypochlorite, solution... % Cl active ; sodium hydroxide; caustic soda), 8, III, ENVIRONMENTALLY HAZARDOUS | UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (sodium hypochlorite, solution... % Cl active ; sodium hydroxide; caustic soda), 8, III, ENVIRONMENTALLY HAZARDOUS |
| <b>14.3. Transport hazard class(es)</b>                                                                                                                       |                                                                                                                                                                           |                                                                                                                                                          |                                                                                                                                                          |                                                                                                                                                          |
| 8                                                                                                                                                             | 8                                                                                                                                                                         | 8                                                                                                                                                        | 8                                                                                                                                                        | 8                                                                                                                                                        |
|                                                                            |                                                                                        |                                                                       |                                                                      |                                                                     |
| <b>14.4. Packing group</b>                                                                                                                                    |                                                                                                                                                                           |                                                                                                                                                          |                                                                                                                                                          |                                                                                                                                                          |
| III                                                                                                                                                           | III                                                                                                                                                                       | III                                                                                                                                                      | III                                                                                                                                                      | III                                                                                                                                                      |
| <b>14.5. Environmental hazards</b>                                                                                                                            |                                                                                                                                                                           |                                                                                                                                                          |                                                                                                                                                          |                                                                                                                                                          |
| Dangerous for the environment: Yes                                                                                                                            | Dangerous for the environment: Yes<br>Marine pollutant: Yes<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-B                                                             | Dangerous for the environment: Yes                                                                                                                       | Dangerous for the environment: Yes                                                                                                                       | Dangerous for the environment: Yes                                                                                                                       |

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| ADR                                    | IMDG | IATA | ADN | RID |
|----------------------------------------|------|------|-----|-----|
| No supplementary information available |      |      |     |     |

### 14.6. Special precautions for user

#### Overland transport

|                                                           |                     |
|-----------------------------------------------------------|---------------------|
| Classification code (ADR)                                 | : C5                |
| Special provisions (ADR)                                  | : 274               |
| Limited quantities (ADR)                                  | : 5I                |
| Excepted quantities (ADR)                                 | : E1                |
| Packing instructions (ADR)                                | : P001, IBC03, R001 |
| Mixed packing provisions (ADR)                            | : MP19              |
| Portable tank and bulk container instructions (ADR)       | : T7                |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP28         |
| Tank code (ADR)                                           | : L4BN              |
| Vehicle for tank carriage                                 | : AT                |
| Transport category (ADR)                                  | : 3                 |
| Special provisions for carriage - Packages (ADR)          | : V12               |
| Hazard identification number (Kemler No.)                 | : 80                |
| Orange plates                                             | :                   |



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

#### Transport by sea

|                                    |                                                                                                                                                                         |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special provisions (IMDG)          | : 223, 274                                                                                                                                                              |
| Limited quantities (IMDG)          | : 5 L                                                                                                                                                                   |
| Excepted quantities (IMDG)         | : E1                                                                                                                                                                    |
| Packing instructions (IMDG)        | : P001                                                                                                                                                                  |
| IBC packing instructions (IMDG)    | : IBC03                                                                                                                                                                 |
| Tank instructions (IMDG)           | : T7                                                                                                                                                                    |
| Tank special provisions (IMDG)     | : TP1, TP28                                                                                                                                                             |
| Stowage category (IMDG)            | : A                                                                                                                                                                     |
| Segregation (IMDG)                 | : SGG18, SG22, SG35                                                                                                                                                     |
| Properties and observations (IMDG) | : Corrosive to aluminium, zinc and tin. Reacts violently with acids. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes. |

#### Air transport

|                                              |            |
|----------------------------------------------|------------|
| PCA Excepted quantities (IATA)               | : E1       |
| PCA Limited quantities (IATA)                | : Y841     |
| PCA limited quantity max net quantity (IATA) | : 1L       |
| PCA packing instructions (IATA)              | : 852      |
| PCA max net quantity (IATA)                  | : 5L       |
| CAO packing instructions (IATA)              | : 856      |
| CAO max net quantity (IATA)                  | : 60L      |
| Special provisions (IATA)                    | : A3, A803 |
| ERG code (IATA)                              | : 8L       |

#### Inland waterway transport

|                                   |          |
|-----------------------------------|----------|
| Classification code (ADN)         | : C5     |
| Special provisions (ADN)          | : 274    |
| Limited quantities (ADN)          | : 5 L    |
| Excepted quantities (ADN)         | : E1     |
| Carriage permitted (ADN)          | : T      |
| Equipment required (ADN)          | : PP, EP |
| Number of blue cones/lights (ADN) | : 0      |

#### Rail transport

|                           |      |
|---------------------------|------|
| Classification code (RID) | : C5 |
|---------------------------|------|

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|                                                           |                     |
|-----------------------------------------------------------|---------------------|
| Special provisions (RID)                                  | : 274               |
| Limited quantities (RID)                                  | : 5L                |
| Excepted quantities (RID)                                 | : E1                |
| Packing instructions (RID)                                | : P001, IBC03, R001 |
| Mixed packing provisions (RID)                            | : MP19              |
| Portable tank and bulk container instructions (RID)       | : T7                |
| Portable tank and bulk container special provisions (RID) | : TP1, TP28         |
| Tank codes for RID tanks (RID)                            | : L4BN              |
| Transport category (RID)                                  | : 3                 |
| Special provisions for carriage – Packages (RID)          | : W12               |
| Colis express (express parcels) (RID)                     | : CE8               |
| 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)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

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

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

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

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

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

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|       |                                                                                                 |
|-------|-------------------------------------------------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists                                       |
| ADN   | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |

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| Abbreviations and acronyms: |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE                         | Acute Toxicity Estimate                                                             |
| BCF                         | Bioconcentration factor                                                             |
| BLV                         | Biological limit value                                                              |
| BOD                         | Biochemical oxygen demand (BOD)                                                     |
| CAS-No.                     | Chemical Abstracts Service number                                                   |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008         |
| COD                         | Chemical oxygen demand (COD)                                                        |
| CSA                         | Chemical safety assessment                                                          |
| DMEL                        | Derived Minimal Effect level                                                        |
| DNEL                        | Derived-No Effect Level                                                             |
| EC-No.                      | European Community number                                                           |
| EC50                        | Median effective concentration                                                      |
| ED                          | Endocrine disruptor                                                                 |
| EN                          | European Standard                                                                   |
| EWC                         | European waste catalogue                                                            |
| IARC                        | International Agency for Research on Cancer                                         |
| IATA                        | International Air Transport Association                                             |
| IMDG                        | International Maritime Dangerous Goods                                              |
| LC50                        | Median lethal concentration                                                         |
| LD50                        | Median lethal dose                                                                  |
| LOAEL                       | Lowest Observed Adverse Effect Level                                                |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                                     |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                                     |
| MAK                         | maximum workplace concentration                                                     |
| NOAEC                       | No-Observed Adverse Effect Concentration                                            |
| NOAEL                       | No-Observed Adverse Effect Level                                                    |
| NOEC                        | No-Observed Effect Concentration                                                    |
| N.O.S.                      | Not Otherwise Specified                                                             |
| OECD                        | Organisation for Economic Co-operation and Development                              |
| OEL                         | Occupational Exposure Limit                                                         |
| OSHA                        | Occupational Safety Health Administration                                           |
| PBT                         | Persistent Bioaccumulative Toxic                                                    |
| PNEC                        | Predicted No-Effect Concentration                                                   |
| PPE                         | Personal protection equipment                                                       |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail        |
| SDS                         | Safety Data Sheet                                                                   |
| STP                         | Sewage treatment plant                                                              |
| TF                          | Technical function                                                                  |

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### Abbreviations and acronyms:

|      |                                          |
|------|------------------------------------------|
| ThOD | Theoretical oxygen demand (ThOD)         |
| TLM  | Median Tolerance Limit                   |
| TWA  | Time Weighted Average                    |
| VOC  | Volatile Organic Compounds               |
| vPvB | Very Persistent and Very Bioaccumulative |
| UFI  | Unique Formula Identifier                |

### Full text of H- and EUH-statements:

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Aquatic Acute 1   | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| EUH031            | Contact with acids liberates toxic gas.                           |
| Eye Dam. 1        | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2      | Serious eye damage/eye irritation, Category 2                     |
| Skin Corr. 1A     | Skin corrosion/irritation, Category 1, Sub-Category 1A            |
| Skin Corr. 1B     | Skin corrosion/irritation, Category 1, Sub-Category 1B            |
| Skin Irrit. 2     | Skin corrosion/irritation, Category 2                             |
| H314              | Causes severe skin burns and eye damage.                          |
| H315              | Causes skin irritation.                                           |
| H318              | Causes serious eye damage.                                        |
| H319              | Causes serious eye irritation.                                    |
| 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.