

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## Ultrasonic MC

Version number: GHS 12.0  
Replaces version of: 2023-01-03 (GHS 11)

Revision: 2024-12-02

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

#### 1.1 Product identifier

|                 |                      |
|-----------------|----------------------|
| Trade name      | <b>Ultrasonic MC</b> |
| Product code(s) | 12341                |

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

|                          |   |
|--------------------------|---|
| Relevant identified uses | cleaning agent<br>industrial uses<br>professional uses  |
| Uses advised against     | Do not use for squirting or spraying in its concentrated form. Do not use for products which come into direct contact with the skin. Do not use for private purposes (household). |

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

Tristar Cleaning Products UK Ltd.  
Unit 3 Ripley Close  
WF6 1TB Normanton, Wakefield  
United Kingdom  
Tel: +44 1924856390  
E-mail: info@tristargroup.uk

#### 1.4 Emergency telephone number

|                               |  |
|-------------------------------|--|
| Emergency information service | for emergency responders<br>This number is only for medical emergencies. |
|-------------------------------|--|

| Poison centre  |   |                                   |
|----------------|---|-----------------------------------|
| Country        | Name  | e-Mail                            |
| United Kingdom | National Poisons Information Service (NPIS) | director.birmingham.unit@npis.org |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class                      | Category | Hazard class and category | Hazard statement |
|---------|-----------------------------------|----------|---------------------------|------------------|
| 3.2     | skin corrosion/irritation         | 1        | Skin Corr. 1              | H314             |
| 3.3     | serious eye damage/eye irritation | 1        | Eye Dam. 1                | H318             |

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

#### 2.2 Label elements

Labelling

- Signal word            danger



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### - Pictograms

GHS05



### - Hazard statements

H314 Causes severe skin burns and eye damage.

### - Precautionary statements

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container to industrial combustion plant.

### - Hazardous ingredients for labelling

Sodium hydroxide, tetrasodium ethylenediamine-tetraacetate, Isotridecanol, ethoxylated ( $\geq 2.5$  EO)

## 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Name of substance                       | Identifier  | Wt%      | Classification acc. to GHS  | Pictograms | Notes  |
|---|---|----------|---|------------|--------|
| tetrasodium ethylenediaminetetraacetate | CAS No<br>64-02-8<br><br>EC No<br>200-573-9<br><br>Index No<br>607-428-00-2 | 5 – < 10 | Acute Tox. 4 / H302<br>Acute Tox. 4 / H332<br>Eye Dam. 1 / H318<br>STOT RE 2 / H373 | <br>       | GHS-HC |
| Silicic acid, sodium salt (MR > 3,2)    | CAS No<br>1344-09-8<br><br>EC No<br>215-687-4                               | 1 – < 5  | Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H335                     |            |        |
| Sodium hydroxide                        | CAS No<br>1310-73-2<br><br>EC No  | 1 – < 5  | Met. Corr. 1 / H290<br>Skin Corr. 1A / H314<br>Eye Dam. 1 / H318                    |            | GHS-HC |









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| Name of substance                           | Identifier  | Wt%     | Classification acc. to GHS                                   | Pictograms  | Notes           |
|---|---|---------|--|---|-----------------|
|   | 215-185-5<br>Index No<br>011-002-00-6   |         |  |   |                 |
| Isotridecanol, ethoxylated ( $\geq 2.5$ EO) | CAS No<br>69011-36-5<br><br>EC No<br>931-138-8                                | 1 – < 5 | Acute Tox. 4 / H302<br>Eye Dam. 1 / H318                     |     |                 |
| Sodium p-cumenesulphonate                   | CAS No<br>15763-76-5<br><br>EC No<br>239-854-6                                | 1 – < 5 | Eye Irrit. 2 / H319  |    |                 |
| 2-(2-butoxyethoxy)ethanol                   | CAS No<br>112-34-5<br><br>EC No<br>203-961-6<br><br>Index No<br>603-096-00-8  | 1 – < 5 | Eye Irrit. 2 / H319  |    | GHS-HC<br>IOELV |
| Trisodium nitrilotriacetate                 | CAS No<br>5064-31-3<br><br>EC No<br>225-768-6<br><br>Index No<br>607-620-00-6 | < 1     | Acute Tox. 4 / H302<br>Eye Irrit. 2 / H319<br>Carc. 2 / H351 |   |                 |

### Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

| Name of substance                           | Specific Conc. Limits   | M-Factors | ATE   | Exposure route                                      |
|---|---|-----------|---|---|
| tetrasodium ethylenediaminetetraacetate     | -   | -         | $>1,780 \text{ mg/kg}$<br>$11 \text{ mg/l/4h}$<br>$1.5 \text{ mg/l/4h}$ | oral<br>inhalation: vapour<br>inhalation: dust/mist |
| Sodium hydroxide                            | Skin Corr. 1A; H314: $C \geq 5 \%$<br>Skin Corr. 1B; H314: $2 \% \leq C < 5 \%$<br>Skin Irrit. 2; H315: $0.5 \% \leq C < 2 \%$<br>Eye Dam. 1; H318: $C \geq 2 \%$<br>Eye Irrit. 2; H319: $0.5 \% \leq C < 2 \%$ | -         | -   |   |
| Isotridecanol, ethoxylated ( $\geq 2.5$ EO) | Eye Dam. 1; H318: $C \geq 10 \%$<br>Eye Irrit. 2; H319: $1 \% \leq C < 10 \%$   | -         | $555.6 \text{ mg/kg}$   | oral  |
| Trisodium nitrilotriacetate                 | Carc. 2; H351: $C \geq 5 \%$  | -         | $1,740 \text{ mg/kg}$   | oral  |

### Remarks

For full text of H-phrases: see SECTION 16.



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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

##### Following skin contact

Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

##### Self-protection of the first aider

Provision of sufficient ventilation. Wear suitable protective clothing, gloves and eye/face protection.

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

Symptoms and effects are not known to date.

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

none

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

Water jet

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

##### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance. Self-contained breathing apparatus (SCBA). SCBA with a chemical protection suit only where personal (close) contact is likely.

### SECTION 6: Accidental release measures

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

##### For non-emergency personnel

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Remove persons to safety. Provision of sufficient ventilation. Prevent skin contact. Avoid inhaling sprayed product. Collection and use of expertise.

##### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.



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### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

- Handling of incompatible substances or mixtures

Do not mix with acids.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Control of effects

Protect from sunlight.

Protect against external exposure, such as

frost

- Packaging compatibilities

Keep only in original container.

### 7.3 Specific end use(s)

Cleaning agent. Industrial uses. Professional uses.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**National limit values**

Occupational exposure limit values (Workplace Exposure Limits)



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### Occupational exposure limit values (Workplace Exposure Limits)

| Coun-try | Name of agent             | CAS No    | Nota-tion | Iden-tifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceil-ing-C [ppm] | Ceil-ing-C [mg/m <sup>3</sup> ] | Sourc-e    |
|----------|---------------------------|-----------|-----------|-------------|-----------|--------------------------|------------|---------------------------|------------------|---------------------------------|------------|
| EU       | 2-(2-butoxyethoxy)ethanol | 112-34-5  |           | IOEL V      | 10        | 67.5                     | 15         | 101.2                     |                  |                                 | 2006/15/EC |
| GB       | 2-(2-butoxyethoxy)ethanol | 112-34-5  |           | WEL         | 10        | 67.5                     | 15         | 101.2                     |                  |                                 | EH40/2005  |
| GB       | sodium hydroxide          | 1310-73-2 |           | WEL         |           |                          |            | 2                         |                  |                                 | EH40/2005  |

#### Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur  
STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)  
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours  
time-weighted average (unless otherwise specified)

### Relevant DNELs of components of the mixture

| Name of sub-stance                      | CAS No     | End-point | Threshold level        | Protection goal, route of exposure | Used in           | Exposure time              |
|---|------------|-----------|------------------------|------------------------------------|-------------------|----------------------------|
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | DNEL      | 1.5 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | DNEL      | 3 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | DNEL      | 1.5 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - local effects    |
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | DNEL      | 3 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | acute - local effects      |
| Silicic acid, sodium salt (MR > 3,2)    | 1344-09-8  | DNEL      | 5.61 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Silicic acid, sodium salt (MR > 3,2)    | 1344-09-8  | DNEL      | 1.59 mg/kg bw/day      | human, dermal                      | worker (industry) | chronic - systemic effects |
| Sodium hydroxide                        | 1310-73-2  | DNEL      | 1 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | chronic - local effects    |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | DNEL      | 294 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | DNEL      | 2,080 mg/kg bw/day     | human, dermal                      | worker (industry) | chronic - systemic effects |
| Sodium p-cumenesulphonate               | 15763-76-5 | DNEL      | 37.4 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Sodium p-cumenesulphonate               | 15763-76-5 | DNEL      | 191 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |
| 2-(2-butoxyethoxy)ethanol               | 112-34-5   | DNEL      | 67.5 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| 2-(2-                                   | 112-34-5   | DNEL      | 67.5                   | human, inhalat-                    | worker (industry) | chronic - local ef-        |



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### Relevant DNELs of components of the mixture

| Name of sub-stance          | CAS No    | End-point | Threshold level         | Protection goal, route of exposure | Used in           | Exposure time              |
|-----------------------------|-----------|-----------|-------------------------|------------------------------------|-------------------|----------------------------|
| butoxyethoxy)ethanol        |           |           | mg/m <sup>3</sup>       | ory                                |                   | fects                      |
| 2-(2-butoxyethoxy)ethanol   | 112-34-5  | DNEL      | 101.2 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - local effects      |
| 2-(2-butoxyethoxy)ethanol   | 112-34-5  | DNEL      | 83 mg/kg bw/day         | human, dermal                      | worker (industry) | chronic - systemic effects |
| Trisodium nitrilotriacetate | 5064-31-3 | DNEL      | 3.5 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Trisodium nitrilotriacetate | 5064-31-3 | DNEL      | 5.25 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | acute - systemic effects   |

### Relevant PNECs of components of the mixture

| Name of sub-stance                      | CAS No     | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
|---|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | PNEC      | 2.83 mg/l       | aquatic organisms     | freshwater                   | short-term (single instance) |
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | PNEC      | 0.283 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | PNEC      | 50 mg/l         | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | PNEC      | 1.1 mg/kg       | terrestrial organisms | soil                         | short-term (single instance) |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | PNEC      | 0.074 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | PNEC      | 0.007 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | PNEC      | 0.015 mg/l      | aquatic organisms     | water                        | intermittent release         |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | PNEC      | 1.4 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | PNEC      | 0.604 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | PNEC      | 0.06 mg/kg      | aquatic organisms     | marine sediment              | short-term (single instance) |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | PNEC      | 0.1 mg/kg       | terrestrial organisms | soil                         | short-term (single instance) |
| Sodium p-cumenesulphonate               | 15763-76-5 | PNEC      | 0.1 mg/l        | aquatic organisms     | freshwater                   | short-term (single instance) |
| Sodium p-cumenesulphonate               | 15763-76-5 | PNEC      | 0.01 mg/l       | aquatic organisms     | marine water                 | short-term (single instance) |
| Sodium p-cumenesulphonate               | 15763-76-5 | PNEC      | 100 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Sodium p-cumenesulphonate               | 15763-76-5 | PNEC      | 0.372 mg/l      | aquatic organisms     | freshwater sedi-             | short-term (single           |



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| Relevant PNECs of components of the mixture |            |               |                    |                            |                                 |                                 |
|---|------------|---------------|--------------------|----------------------------|---------------------------------|---------------------------------|
| Name of sub-<br>stance                      | CAS No     | End-<br>point | Threshold<br>level | Organism                   | Environmental<br>compartment    | Exposure time                   |
| ulphonate                                   |            |               | kg                 | isms                       | ment                            | instance)                       |
| Sodium p-cumenes-<br>ulphonate              | 15763-76-5 | PNEC          | 0.037 mg/<br>kg    | aquatic organ-<br>isms     | marine sediment                 | short-term (single<br>instance) |
| Sodium p-cumenes-<br>ulphonate              | 15763-76-5 | PNEC          | 0.016 mg/<br>kg    | terrestrial organ-<br>isms | soil                            | short-term (single<br>instance) |
| 2-(2-<br>butoxyethoxy)eth-<br>anol          | 112-34-5   | PNEC          | 1.1 mg/l           | aquatic organ-<br>isms     | freshwater                      | short-term (single<br>instance) |
| 2-(2-<br>butoxyethoxy)eth-<br>anol          | 112-34-5   | PNEC          | 0.11 mg/l          | aquatic organ-<br>isms     | marine water                    | short-term (single<br>instance) |
| 2-(2-<br>butoxyethoxy)eth-<br>anol          | 112-34-5   | PNEC          | 200 mg/l           | aquatic organ-<br>isms     | sewage treatment<br>plant (STP) | short-term (single<br>instance) |
| 2-(2-<br>butoxyethoxy)eth-<br>anol          | 112-34-5   | PNEC          | 4.4 mg/kg          | aquatic organ-<br>isms     | freshwater sedi-<br>ment        | short-term (single<br>instance) |
| 2-(2-<br>butoxyethoxy)eth-<br>anol          | 112-34-5   | PNEC          | 0.44 mg/kg         | aquatic organ-<br>isms     | marine sediment                 | short-term (single<br>instance) |
| 2-(2-<br>butoxyethoxy)eth-<br>anol          | 112-34-5   | PNEC          | 0.32 mg/kg         | terrestrial organ-<br>isms | soil                            | short-term (single<br>instance) |
| Trisodium nitrilotri-<br>acetate            | 5064-31-3  | PNEC          | 0.93 mg/l          | aquatic organ-<br>isms     | freshwater                      | short-term (single<br>instance) |
| Trisodium nitrilotri-<br>acetate            | 5064-31-3  | PNEC          | 0.093 mg/l         | aquatic organ-<br>isms     | marine water                    | short-term (single<br>instance) |
| Trisodium nitrilotri-<br>acetate            | 5064-31-3  | PNEC          | 0.915 mg/l         | aquatic organ-<br>isms     | water                           | intermittent re-<br>lease       |
| Trisodium nitrilotri-<br>acetate            | 5064-31-3  | PNEC          | 540 mg/l           | aquatic organ-<br>isms     | sewage treatment<br>plant (STP) | short-term (single<br>instance) |
| Trisodium nitrilotri-<br>acetate            | 5064-31-3  | PNEC          | 3.64 mg/kg         | aquatic organ-<br>isms     | freshwater sedi-<br>ment        | short-term (single<br>instance) |
| Trisodium nitrilotri-<br>acetate            | 5064-31-3  | PNEC          | 0.364 mg/<br>kg    | aquatic organ-<br>isms     | marine sediment                 | short-term (single<br>instance) |
| Trisodium nitrilotri-<br>acetate            | 5064-31-3  | PNEC          | 0.182 mg/<br>kg    | terrestrial organ-<br>isms | soil                            | short-term (single<br>instance) |

## 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions.

If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

Eye/face protection

Wear eye/face protection. Wear face protection.



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### Skin protection

#### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - Type of material

NBR: acrylonitrile-butadiene rubber

#### - Material thickness

> 0.35 mm

#### - Breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### - Other protection measures

Protective clothing against liquid chemicals. Footwear protecting against chemicals. Preventive skin protection (barrier creams/ointments) is recommended. Take recovery periods for skin regeneration. Wash hands thoroughly after handling.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state   | liquid  |
| Colour   | clear - colourless  |
| Odour  | odourless   |
| Melting point/freezing point                             | not determined  |
| Boiling point or initial boiling point and boiling range | 100 °C  |
| Flammability   | this material is combustible, but will not ignite readily |
| Lower and upper explosion limit                          | not determined  |
| Flash point  | not determined  |
| Auto-ignition temperature                                | 210 °C (auto-ignition temperature (liquids and gases))    |
| pH (value)   | 13 (20 °C) (base)   |
| Kinematic viscosity                                      | not determined  |

### Solubility(ies)

|                  |                            |
|------------------|----------------------------|
| Water solubility | miscible in any proportion |
|------------------|----------------------------|



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### Partition coefficient

|   |                                   |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

|                 |  |
|-----------------|--|
| Vapour pressure | 2.339 kPa at 20 °C (calculated value, referring to a component of the mixture) |
|-----------------|--|

### Density and/or relative density

|                         |   |
|-------------------------|---|
| Density                 | 1.185 g/cm <sup>3</sup> at 20 °C              |
| Relative vapour density | information on this property is not available |

|                          |                       |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

## 9.2 Other information

|  |   |
|--|---|
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards): not relevant |
|--|---|

### Other safety characteristics

|             |                                 |
|-------------|---------------------------------|
| Miscibility | Completely miscible with water. |
| VOC content | 3.6 %                           |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Acids, Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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### Classification acc. to GHS

#### Acute toxicity

Shall not be classified as acutely toxic.  
GHS of the United Nations, annex 4: May be harmful if inhaled.

#### Acute toxicity estimate (ATE) of components of the mixture

| Name of substance                       | CAS No     | Exposure route        | ATE          |
|---|------------|-----------------------|--------------|
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | oral                  | >1,780 mg/kg |
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | inhalation: vapour    | 11 mg/l/4h   |
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | inhalation: dust/mist | 1.5 mg/l/4h  |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | oral                  | 555.6 mg/kg  |
| Trisodium nitrilotriacetate             | 5064-31-3  | oral                  | 1,740 mg/kg  |

#### Acute toxicity of components of the mixture

| Name of substance                       | CAS No     | Exposure route     | Endpoint | Value                  | Species |
|---|------------|--------------------|----------|------------------------|---------|
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | oral               | LD50     | >1,780 – < 2,000 mg/kg | rat     |
| Silicic acid, sodium salt (MR > 3,2)    | 1344-09-8  | oral               | LD50     | 3,400 mg/kg            | rat     |
| Silicic acid, sodium salt (MR > 3,2)    | 1344-09-8  | inhalation: vapour | LC50     | >2.06 mg/l/4h          | rat     |
| Silicic acid, sodium salt (MR > 3,2)    | 1344-09-8  | dermal             | LD50     | >5,000 mg/kg           | rat     |
| Sodium hydroxide                        | 1310-73-2  | oral               | LD50     | 325 mg/kg              | rabbit  |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | oral               | LD50     | >2,000 mg/kg           | rat     |
| Sodium p-cumenesulphonate               | 15763-76-5 | oral               | LD50     | >6,720 mg/kg           | rat     |
| Sodium p-cumenesulphonate               | 15763-76-5 | dermal             | LD50     | >2,000 mg/kg           | rabbit  |
| 2-(2-butoxyethoxy)ethanol               | 112-34-5   | oral               | LD50     | 2,410 mg/kg            | mouse   |
| 2-(2-butoxyethoxy)ethanol               | 112-34-5   | dermal             | LD50     | 2,764 mg/kg            | rabbit  |
| Trisodium nitrilotriacetate             | 5064-31-3  | oral               | LD50     | 1,740 mg/kg            | rat     |

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).



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Specific target organ toxicity - repeated exposure  
Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard  
Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) of components of the mixture |            |          |             |                       |               |
|---|------------|----------|-------------|-----------------------|---------------|
| Name of substance                                     | CAS No     | Endpoint | Value       | Species               | Exposure time |
| tetrasodium ethylene-diaminetetraacetate              | 64-02-8    | LC50     | >100 mg/l   | fish                  | 96 h          |
| tetrasodium ethylene-diaminetetraacetate              | 64-02-8    | EC50     | >114 mg/l   | aquatic invertebrates | 48 h          |
| tetrasodium ethylene-diaminetetraacetate              | 64-02-8    | ErC50    | >60 mg/l    | algae                 | 72 h          |
| Silicic acid, sodium salt (MR > 3,2)                  | 1344-09-8  | LC50     | 310 mg/l    | fish                  | 96 h          |
| Silicic acid, sodium salt (MR > 3,2)                  | 1344-09-8  | EC50     | 1,700 mg/l  | aquatic invertebrates | 48 h          |
| Silicic acid, sodium salt (MR > 3,2)                  | 1344-09-8  | ErC50    | >345.4 mg/l | algae                 | 72 h          |
| Sodium hydroxide                                      | 1310-73-2  | LC50     | <180 mg/l   | fish                  | 96 h          |
| Sodium hydroxide                                      | 1310-73-2  | EC50     | 40.4 mg/l   | aquatic invertebrates | 48 h          |
| Sodium p-cumenesulphonate                             | 15763-76-5 | LC50     | ≥252 mg/l   | fish                  | 96 h          |
| Sodium p-cumenesulphonate                             | 15763-76-5 | EC50     | >304 mg/l   | aquatic invertebrates | 48 h          |
| Sodium p-cumenesulphonate                             | 15763-76-5 | ErC50    | 252 mg/l    | algae                 | 72 h          |
| 2-(2-butoxyethoxy)ethanol                             | 112-34-5   | LC50     | 1,300 mg/l  | fish                  | 96 h          |
| 2-(2-butoxyethoxy)ethanol                             | 112-34-5   | EC50     | >100 mg/l   | aquatic invertebrates | 48 h          |
| 2-(2-butoxyethoxy)ethanol                             | 112-34-5   | ErC50    | >100 mg/l   | algae                 | 96 h          |
| Trisodium nitrilotriacetate                           | 5064-31-3  | LC50     | 114 mg/l    | fish                  | 96 h          |
| Trisodium nitrilotriacetate                           | 5064-31-3  | EC50     | 98 mg/l     | aquatic invertebrates | 96 h          |
| Trisodium nitrilotriacetate                           | 5064-31-3  | ErC50    | >91.5 mg/l  | algae                 | 72 h          |



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### Aquatic toxicity (chronic) of components of the mixture

| Name of substance                       | CAS No    | Endpoint | Value    | Species               | Exposure time |
|---|-----------|----------|----------|-----------------------|---------------|
| tetrasodium ethylenediaminetetraacetate | 64-02-8   | EC50     | 625 mg/l | aquatic invertebrates | 24 h          |
| Sodium hydroxide                        | 1310-73-2 | EC50     | 22 mg/l  | microorganisms        | 15 min        |

## 12.2 Persistence and degradability

### Degradability of components of the mixture

| Name of substance                       | CAS No     | Process                   | Degradation rate | Time | Method | Source |
|---|------------|---------------------------|------------------|------|--------|--------|
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | oxygen depletion          | 78 %             | 56 d |        | ECHA   |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | DOC removal               | 82 %             | 28 d |        | ECHA   |
| Sodium p-cumenesulphonate               | 15763-76-5 | carbon dioxide generation | 98 %             | 28 d |        | ECHA   |
| 2-(2-butoxyethoxy)ethanol               | 112-34-5   | oxygen depletion          | 85 %             | 28 d |        | ECHA   |
| Trisodium nitrilotriacetate             | 5064-31-3  | DOC removal               | >95 %            | 28 d |        | ECHA   |

## 12.3 Bioaccumulative potential

Data are not available.

### Bioaccumulative potential of components of the mixture

| Name of substance                       | CAS No     | BCF   | Log KOW                | BOD5/COD |
|---|------------|-------|------------------------|----------|
| tetrasodium ethylenediaminetetraacetate | 64-02-8    | 1.8   | -13.17 (25 °C)         |          |
| Isotridecanol, ethoxylated (>=2.5 EO)   | 69011-36-5 | 232.5 |                        |          |
| Sodium p-cumenesulphonate               | 15763-76-5 |       | -1.1 (23 °C)           |          |
| 2-(2-butoxyethoxy)ethanol               | 112-34-5   |       | 1 (pH value: 7, 20 °C) |          |

## 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0,1\%$ .

## 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## 12.7 Other adverse effects

Data are not available.



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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packageings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: Transport information

- |      |   |   |
|------|---|---|
| 14.1 | UN number or ID number                                  | not subject to transport regulations                                  |
| 14.2 | UN proper shipping name                                 | not relevant  |
| 14.3 | Transport hazard class(es)                              | none  |
| 14.4 | Packing group   | not assigned  |
| 14.5 | Environmental hazards                                   | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user                            | There is no additional information.                                   |
| 14.7 | Maritime transport in bulk according to IMO instruments | The cargo is not intended to be carried in bulk.                      |

#### Information for each of the UN Model Regulations

##### International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

##### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

### SECTION 15: Regulatory information

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

##### Relevant provisions of the European Union (EU)

None of the ingredients are listed.

##### Deco-Paint Directive

|             |       |
|-------------|-------|
| VOC content | 2.4 % |
|-------------|-------|

##### Industrial Emissions Directive (IED)

|             |       |
|-------------|-------|
| VOC content | 3.6 % |
|-------------|-------|

##### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed



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### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

#### List of pollutants (WFD)

| Name of substance                       | CAS No | Listed in | Remarks |
|---|--------|-----------|---------|
| Sodium hydroxide                        |        | a)        |         |
| Trisodium nitrilotriacetate             |        | a)        |         |
| Trisodium nitrilotriacetate             |        | a)        |         |
| tetrasodium ethylenediaminetetraacetate |        | a)        |         |

#### Legend

a) Indicative list of the main pollutants

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

### National regulations (GB)

#### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

### Restrictions according to GB REACH, Annex 17

#### Dangerous substances with restrictions (GB REACH, Annex 17)

| Name of substance         | Name acc. to inventory   | CAS No   | No |
|---------------------------|--|----------|----|
| Ultrasonic MC             | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC |          | 3  |
| 2-(2-butoxyethoxy)ethanol | 2-(2-butoxyethoxy)ethanol (DEGBE)  | 112-34-5 | 55 |

### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| EU      | REACH Reg. | all ingredients are listed     |
| US      | TSCA       | not all ingredients are listed |

#### Legend

REACH Reg. REACH registered substances

TSCA Toxic Substance Control Act

## 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.



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### SECTION 16: Other information

#### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)   | Actual entry (text/value)   | Safety-relevant |
|---------|---|---|-----------------|
| 2.1     |   | Classification acc. to GHS:<br>change in the listing (table)  | yes             |
| 2.2     |   | - Hazard statements:<br>change in the listing (table)   | yes             |
| 2.2     |   | - Precautionary statements:<br>change in the listing (table)  | yes             |
| 2.2     | - Hazardous ingredients for labelling:<br>Sodium hydroxide, tetrasodium ethylenediaminetetraacetate, Isotridecanol, ethoxylated     | - Hazardous ingredients for labelling:<br>Sodium hydroxide, tetrasodium ethylenediaminetetraacetate, Isotridecanol, ethoxylated<br>( $\geq 2.5$ EO)   | yes             |
| 2.3     |   | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$ .   | yes             |
| 3.2     |   | Description of the mixture:<br>change in the listing (table)  | yes             |
| 3.2     |   | Description of the mixture:<br>change in the listing (table)  | yes             |
| 3.2     |   | Remarks:<br>For full text of H-phrases: see SECTION 16.   | yes             |
| 5.2     | Special hazards arising from the substance or mixture:<br>Substance or mixture corrosive to metals.                                 | Special hazards arising from the substance or mixture   | yes             |
| 7.2     | Managing of associated risks  |   | yes             |
| 7.2     | - Corrosive conditions:<br>Store in corrosive resistant container with a resistant inner liner.                                     |   | yes             |
| 7.2     | - Packaging compatibilities:<br>Keep only in original container. Only packagings which are approved (e.g. acc. to ADR) may be used. | - Packaging compatibilities:<br>Keep only in original container.  | yes             |
| 8.1     |   | Relevant DNELs of components of the mixture:<br>change in the listing (table)   | yes             |
| 8.1     |   | Relevant PNECs of components of the mixture:<br>change in the listing (table)   | yes             |
| 8.2     |   | General protective and hygiene measures:<br>Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions.<br>If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly. | yes             |
| 9.2     | Information with regard to physical hazard classes:<br>there is no additional information   | Information with regard to physical hazard classes:<br>hazard classes acc. to GHS (physical hazards):   | yes             |



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|---------|---|---|-----------------|
|         |   | not relevant  |                 |
| 9.2     | VOC content:<br>6 %   | VOC content:<br>3.6 %   | yes             |
| 10.1    | Reactivity:<br>Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".<br>Substance or mixture corrosive to metals.   | Reactivity:<br>Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".  | yes             |
| 10.4    | Conditions to avoid:<br>May be corrosive to metals.   | Conditions to avoid:<br>There are no specific conditions known which have to be avoided.  | yes             |
| 11.1    |   | Acute toxicity estimate (ATE) of components of the mixture:<br>change in the listing (table)  | yes             |
| 11.1    |   | Acute toxicity of components of the mixture:<br>change in the listing (table)   | yes             |
| 12.1    |   | Aquatic toxicity (acute) of components of the mixture:<br>change in the listing (table)   | yes             |
| 12.2    |   | Degradability of components of the mixture:<br>change in the listing (table)  | yes             |
| 12.5    | Results of PBT and vPvB assessment:<br>Data are not available.  | Results of PBT and vPvB assessment:<br>According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$ . | yes             |
| 12.6    | Endocrine disrupting properties:<br>None of the ingredients are listed.   | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$ .   | yes             |
| 13.1    | Waste treatment of containers/packagings:<br>It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. | Waste treatment of containers/packagings:<br>Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.                                       | yes             |
| 14.1    | UN number or ID number  | UN number or ID number:<br>not subject to transport regulations   | yes             |
| 14.1    | ADR/RID:<br>UN 1824   |   | yes             |
| 14.1    | IMDG-Code:<br>UN 1824   |   | yes             |
| 14.1    | ICAO-TI:<br>UN 1824   |   | yes             |
| 14.2    | ADR/RID:<br>SODIUM HYDROXIDE SOLUTION   |   | yes             |
| 14.2    | IMDG-Code:<br>SODIUM HYDROXIDE SOLUTION   |   | yes             |
| 14.2    | ICAO-TI:<br>Sodium hydroxide solution   |   | yes             |
| 14.3    | ADR/RID:<br>8   |   | yes             |
| 14.3    | IMDG-Code:<br>8   |   | yes             |
| 14.3    | ICAO-TI:  |   | yes             |



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|---------|---|---|-----------------|
|         | 8   |   |                 |
| 14.4    | ADR/RID:<br>III   |   | yes             |
| 14.4    | IMDG-Code:<br>III   |   | yes             |
| 14.4    | ICAO-TI:<br>III   |   | yes             |
| 14.7    | Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information   |   | yes             |
| 14.7    | Classification code:<br>C5  |   | yes             |
| 14.7    | Danger label(s):<br>8   |   | yes             |
| 14.7    |   | Danger label(s):<br>change in the listing (table) | yes             |
| 14.7    | Excepted quantities (EQ):<br>E1   |   | yes             |
| 14.7    | Limited quantities (LQ):<br>5 L   |   | yes             |
| 14.7    | Transport category (TC):<br>3   |   | yes             |
| 14.7    | Tunnel restriction code (TRC):<br>E   |   | yes             |
| 14.7    | Hazard identification No:<br>80   |   | yes             |
| 14.7    | Emergency Action Code:<br>2R  |   | yes             |
| 14.7    | Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information |   | yes             |
| 14.7    | Classification code:<br>C5  |   | yes             |
| 14.7    | Danger label(s):<br>8   |   | yes             |
| 14.7    |   | Danger label(s):<br>change in the listing (table) | yes             |
| 14.7    | Excepted quantities (EQ):<br>E1   |   | yes             |
| 14.7    | Limited quantities (LQ):<br>5 L   |   | yes             |
| 14.7    | Transport category (TC):<br>3   |   | yes             |
| 14.7    | Hazard identification No:<br>80   |   | yes             |
| 14.7    | Marine pollutant:<br>-  |   | yes             |
| 14.7    | Danger label(s):<br>8   |   | yes             |
| 14.7    |   | Danger label(s):                                  | yes             |



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| Section | Former entry (text/value)  | Actual entry (text/value)  | Safety-relevant |
|---------|--|--|-----------------|
|         |  | change in the listing (table)  |                 |
| 14.7    | Special provisions (SP):<br>223  |  | yes             |
| 14.7    | Excepted quantities (EQ):<br>E1  |  | yes             |
| 14.7    | Limited quantities (LQ):<br>5 L  |  | yes             |
| 14.7    | EmS:<br>F-A, S-B   |  | yes             |
| 14.7    | Stowage category:<br>A   |  | yes             |
| 14.7    | Segregation group:<br>18 - Alkalis   |  | yes             |
| 14.7    | Danger label(s):<br>8  |  | yes             |
| 14.7    |  | Danger label(s):<br>change in the listing (table)  | yes             |
| 14.7    | Special provisions (SP):<br>A3   |  | yes             |
| 14.7    | Excepted quantities (EQ):<br>E1  |  | yes             |
| 14.7    | Limited quantities (LQ):<br>1 L  |  | yes             |
| 14.2    | UN proper shipping name  | UN proper shipping name:<br>not relevant   | yes             |
| 14.3    | Transport hazard class(es)   | Transport hazard class(es):<br>none  | yes             |
| 14.4    | Packing group  | Packing group:<br>not assigned   | yes             |
| 14.6    | Special precautions for user:<br>Provisions for dangerous goods (ADR) should<br>be complied within the premises. | Special precautions for user:<br>There is no additional information.   | yes             |
| 14.7    | International Maritime Dangerous Goods Code<br>(IMDG) - Additional information                                   | International Maritime Dangerous Goods Code<br>(IMDG) - Additional information:<br>Not subject to IMDG.              | yes             |
| 14.7    | International Civil Aviation Organization (ICAO-<br>IATA/DGR) - Additional information                           | International Civil Aviation Organization (ICAO-<br>IATA/DGR) - Additional information:<br>Not subject to ICAO-IATA. | yes             |
| 15.1    | VOC content:<br>6 %  | VOC content:<br>3.6 %  | yes             |
| 15.1    |  | List of pollutants (WFD):<br>change in the listing (table)   | yes             |
| 15.1    |  | National inventories:<br>change in the listing (table)   | yes             |
| 16      |  | Abbreviations and acronyms:<br>change in the listing (table)   | yes             |



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### Abbreviations and acronyms

| Abbr.      | Descriptions of used abbreviations   |
|------------|--|
| 2006/15/EC | Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC |
| Acute Tox. | Acute toxicity   |
| ADR        | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)                                      |
| ATE        | Acute Toxicity Estimate  |
| BCF        | Bioconcentration factor  |
| BOD        | Biochemical Oxygen Demand  |
| Carc.      | Carcinogenicity  |
| CAS        | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |
| Ceiling-C  | Ceiling value  |
| COD        | Chemical oxygen demand   |
| DGR        | Dangerous Goods Regulations (see IATA/DGR)   |
| DNEL       | Derived No-Effect Level  |
| EC50       | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval                   |
| EC No      | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                  |
| ED         | Endocrine disruptor  |
| EH40/2005  | EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )              |
| EINECS     | European Inventory of Existing Commercial Chemical Substances  |
| ELINCS     | European List of Notified Chemical Substances  |
| ErC50      | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control                             |
| Eye Dam.   | Seriously damaging to the eye  |
| Eye Irrit. | Irritant to the eye  |
| GB REACH   | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)   |
| GHS        | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  |
| IATA       | International Air Transport Association  |
| IATA/DGR   | Dangerous Goods Regulations (DGR) for the air transport (IATA)   |
| ICAO       | International Civil Aviation Organization  |
| IMDG       | International Maritime Dangerous Goods Code  |
| index No   | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008   |
| IOELV      | Indicative occupational exposure limit value   |
| LC50       | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval  |
| LD50       | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval   |
| log KOW    | n-Octanol/water  |
| Met. Corr. | Substance or mixture corrosive to metals   |



# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## Ultrasonic MC

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| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| NLP         | No-Longer Polymer   |
| PBT         | Persistent, Bioaccumulative and Toxic   |
| PNEC        | Predicted No-Effect Concentration   |
| ppm         | Parts per million   |
| REACH       | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID         | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| SCBA        | Self-contained breathing apparatus  |
| Skin Corr.  | Corrosive to skin   |
| Skin Irrit. | Irritant to skin  |
| STEL        | Short-term exposure limit   |
| STOT RE     | Specific target organ toxicity - repeated exposure  |
| STOT SE     | Specific target organ toxicity - single exposure  |
| TWA         | Time-weighted average   |
| VOC         | Volatile Organic Compounds  |
| vPvB        | Very Persistent and very Bioaccumulative  |
| WEL         | Workplace exposure limit  |

### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text   |
|------|--|
| H290 | May be corrosive to metals.  |
| H302 | Harmful if swallowed.  |
| H314 | Causes severe skin burns and eye damage.                           |
| H315 | Causes skin irritation.  |
| H318 | Causes serious eye damage.   |
| H319 | Causes serious eye irritation.                                     |
| H332 | Harmful if inhaled.  |
| H335 | May cause respiratory irritation.                                  |
| H351 | Suspected of causing cancer.                                       |
| H373 | May cause damage to organs through prolonged or repeated exposure. |



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### Disclaimer

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