



## Spectak G VC1

Revision: 2023-02-23

Version: 07.1

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

#### 1.1 Product identifier

**Trade name:** Spectak G VC1

UFI: XC44-F0FH-G00R-MRN7

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

|                              |  |
|------------------------------|--|
| <b>Product use:</b>          | Cleaning in place chemical.<br>Bottle wash.<br>For industrial use only.. |
| <b>Uses advised against:</b> | Uses other than those identified are not recommended.                    |

#### SWED - Sector-specific worker exposure description :

AISE\_SWED\_IS\_8b\_1  
AISE\_SWED\_IS\_4\_1  
AISE\_SWED\_IS\_7\_5

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

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

#### Contact details

Diversey Ltd  
Weston Favell Centre, Northampton NN3 8PD, United Kingdom  
Tel: 01604 405311, Fax: 01604 406809  
Regulatory Email: customerservice.uk@diversey.com

#### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)  
For medical or environmental emergency only:  
call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin Corr. 1A (H314)  
Eye Dam. 1 (H318)  
Met. Corr. 1 (H290)

#### 2.2 Label elements



**Signal word:** Danger.

Contains sodium hydroxide (Sodium Hydroxide)

#### Hazard statements:

H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.

#### Precautionary statements:

P280 - Wear protective gloves, protective clothing and eye or face protection.  
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.

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P310 - Immediately call a POISON CENTRE, doctor or physician.

### 2.3 Other hazards

No other hazards known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

| Ingredient(s)    | EC number | CAS number | REACH number     | Classification                              | Notes | Weight percent |
|------------------|-----------|------------|------------------|---|-------|----------------|
| sodium hydroxide | 215-185-5 | 1310-73-2  | 01-2119457892-27 | Skin Corr. 1A (H314)<br>Met. Corr. 1 (H290) |       | 30-50          |

#### Specific concentration limits

sodium hydroxide:

- Eye Dam. 1 (H318) >= 2% > Eye Irrit. 2 (H319) >= 0.5%
- Skin Corr. 1A (H314) >= 5% > Skin Corr. 1B (H314) >= 2% > Skin Irrit. 2 (H315) >= 0.5%

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General Information:

If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

#### Inhalation:

Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.

#### Skin contact:

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician. If skin irritation occurs: Get medical advice or attention.

#### Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

#### Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

#### Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

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

#### Inhalation:

No known effects or symptoms in normal use.

#### Skin contact:

Causes severe burns.

#### Eye contact:

Causes severe or permanent damage.

#### Ingestion:

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

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

Wear suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

### 6.2 Environmental precautions

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Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

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

Dyke to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

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

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

### 7.3 Specific end use(s)

No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Workplace exposure limits

Air limit values, if available:

| Ingredient(s)    | UK - Long term value(s) | UK - Short term value(s) |
|------------------|-------------------------|--------------------------|
| sodium hydroxide |                         | 2 mg/m <sup>3</sup>      |

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

#### DNEL/DMEL and PNEC values

##### Human exposure

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s)    | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| sodium hydroxide | -                          | -                             | -                         | -                            |

DNEL/DMEL dermal exposure - Worker

| Ingredient(s)    | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|------------------|----------------------------|--|---------------------------|---|
| sodium hydroxide | 2 %                        | -  | -                         | -                                       |

DNEL/DMEL dermal exposure - Consumer

| Ingredient(s)    | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|------------------|----------------------------|--|---------------------------|---|
| sodium hydroxide | 2 %                        | -  | -                         | -                                       |

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

| Ingredient(s)    | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| sodium hydroxide | -                          | -                             | 1                         | -                            |

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

| Ingredient(s) | Short term - Local | Short term - Systemic | Long term - Local | Long term - Systemic |
|---------------|--------------------|-----------------------|-------------------|----------------------|
|---------------|--------------------|-----------------------|-------------------|----------------------|

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|                  | effects | effects | effects | effects |
|------------------|---------|---------|---------|---------|
| sodium hydroxide | -       | -       | 1       | -       |

**Environmental exposure**

Environmental exposure - PNEC

| Ingredient(s)    | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| sodium hydroxide | -                           | -                            | -                   | -                             |

Environmental exposure - PNEC, continued

| Ingredient(s)    | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|------------------|------------------------------|--------------------------|--------------|-------------|
| sodium hydroxide | -                            | -                        | -            | -           |

**8.2 Exposure controls**

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required. Where possible: use in automated/closed system and cover open containers. Transport over pipes. Filling with automatic systems. Use tools for manual handling of product.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**REACH use scenarios considered for the undiluted product:**

|                                 | SWED - Sector-specific worker exposure description | LCS | PROC    | Duration (min) | ERC  |
|---------------------------------|--|-----|---------|----------------|------|
| Automatic transfer and dilution | AISE_SWED_IS_8b_1                                  | IS  | PROC 8b | 60             | ERC4 |

**Personal protective equipment****Eye / face protection:**

Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.  
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm  
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  mm  
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:**

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:**

If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the product information sheet for the possibilities. Apply technical measures to comply with the occupational exposure limits, if available.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

**Recommended maximum concentration (% w/w):** 5

**Appropriate engineering controls:** Provide a good standard of general ventilation. Where possible: use in automated/closed system and cover open containers. Transport over pipes. Filling with automatic systems. Use tools for manual handling of product.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

**REACH use scenarios considered for the diluted product:**

|  | SWED             | LCS | PROC   | Duration (min) | ERC  |
|--|------------------|-----|--------|----------------|------|
| Automatic application in a dedicated closed system | AISE_SWED_IS_1_1 | IS  | PROC 1 | 480            | ERC4 |

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|   |                  |    |        |     |       |
|---|------------------|----|--------|-----|-------|
| Automatic application in a dedicated system | AISE_SWED_IS_4_1 | IS | PROC 4 | 480 | ERC8a |
| Spray application                           | AISE_SWED_IS_7_5 | IS | PROC 7 | 480 | ERC4  |

**Personal protective equipment****Eye / face protection:**

Goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.  
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:**

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:**

If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the product information sheet for the possibilities. Apply technical measures to comply with the occupational exposure limits, if available.

**Environmental exposure controls:**

No special requirements under normal use conditions.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Information in this section refers to the product, unless it is specifically stated that substance data is listed

|   | Method / remark    |
|---|--------------------|
| <b>Physical state:</b> Liquid                                       |                    |
| <b>Colour:</b> Clear , Pale , Yellow                                |                    |
| <b>Odour:</b> Product specific                                      |                    |
| <b>Odour threshold:</b> Not applicable                              |                    |
| <b>Melting point/freezing point (°C):</b> Not determined            | N.A.               |
| <b>Initial boiling point and boiling range (°C):</b> Not determined | See substance data |

Substance data, boiling point

| Ingredient(s)    | Value (°C) | Method           | Atmospheric pressure (hPa) |
|------------------|------------|------------------|----------------------------|
| sodium hydroxide | > 990      | Method not given |                            |

|  | Method / remark |
|--|-----------------|
| <b>Flammability (solid, gas):</b> Not applicable to liquids  |                 |
| <b>Flammability (liquid):</b> Not flammable.   |                 |
| <b>Flash point (°C):</b> > 100 °C  | closed cup      |
| <b>Sustained combustion:</b> Not applicable.<br>( UN Manual of Tests and Criteria, section 32, L.2 ) |                 |
| <b>Lower and upper explosion limit/flammability limit (%):</b> Not determined                        |                 |

Substance data, flammability or explosive limits, if available:

|   | Method / remark |
|---|-----------------|
| <b>Autoignition temperature:</b> Not determined               |                 |
| <b>Decomposition temperature:</b> Not applicable.             |                 |
| <b>pH:</b> $\geq 11.5$ (neat)                                 | ISO 4316        |
| <b>Dilution pH:</b> > 11 (5 %)                                | ISO 4316        |
| <b>Kinematic viscosity:</b> Not determined                    |                 |
| <b>Solubility in / Miscibility with water:</b> Fully miscible |                 |

Substance data, solubility in water

| Ingredient(s)    | Value (g/l) | Method           | Temperature (°C) |
|------------------|-------------|------------------|------------------|
| sodium hydroxide | 1000        | Method not given | 20               |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

|  | Method / remark    |
|--|--------------------|
| <b>Vapour pressure:</b> Not determined | See substance data |

Substance data, vapour pressure

| Ingredient(s)    | Value (Pa) | Method           | Temperature (°C) |
|------------------|------------|------------------|------------------|
| sodium hydroxide | < 1330     | Method not given | 20               |

**Relative density:** ≈ 1.47 (20 °C)**Relative vapour density:** No data available.**Particle characteristics:** No data available.**Method / remark**

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

**9.2 Other information****9.2.1 Information with regard to physical hazard classes****Explosive properties:** Not explosive.

N.A

**Oxidising properties:** Not oxidising.

N.A.

**Corrosion to metals:** Corrosive**9.2.2 Other safety characteristics****Alkali reserve:** ≈ 33.0 (g NaOH / 100g; pH=10)**SECTION 10: Stability and reactivity****10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

May be corrosive to metals. Reacts with acids.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Mixture data:.

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): &gt;2000

Substance data, where relevant and available, are listed below:.

**Acute toxicity**

Acute oral toxicity

| Ingredient(s)    | Endpoint | Value (mg/kg)     | Species | Method | Exposure time (h) | ATE (mg/kg)     |
|------------------|----------|-------------------|---------|--------|-------------------|-----------------|
| sodium hydroxide |          | No data available |         |        |                   | Not established |

Acute dermal toxicity

| Ingredient(s)    | Endpoint         | Value (mg/kg) | Species | Method           | Exposure time (h) | ATE (mg/kg) |
|------------------|------------------|---------------|---------|------------------|-------------------|-------------|
| sodium hydroxide | LD <sub>50</sub> | 1350          | Rabbit  | Method not given |                   | 1350        |

Acute inhalative toxicity

| Ingredient(s)    | Endpoint | Value (mg/l)      | Species | Method | Exposure time (h) |
|------------------|----------|-------------------|---------|--------|-------------------|
| sodium hydroxide |          | No data available |         |        |                   |

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## Acute inhalative toxicity, continued

| Ingredient(s)    |  | ATE - inhalation, dust (mg/l) | ATE - inhalation, mist (mg/l) | ATE - inhalation, vapour (mg/l) | ATE - inhalation, gas (mg/l) |
|------------------|--|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| sodium hydroxide |  | Not established               | Not established               | Not established                 | Not established              |

## Irritation and corrosivity

## Skin irritation and corrosivity

| Ingredient(s)    |  | Result    | Species | Method           | Exposure time |
|------------------|--|-----------|---------|------------------|---------------|
| sodium hydroxide |  | Corrosive | Rabbit  | Method not given |               |

## Eye irritation and corrosivity

| Ingredient(s)    |  | Result    | Species | Method           | Exposure time |
|------------------|--|-----------|---------|------------------|---------------|
| sodium hydroxide |  | Corrosive | Rabbit  | Method not given |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)    |  | Result            | Species | Method | Exposure time |
|------------------|--|-------------------|---------|--------|---------------|
| sodium hydroxide |  | No data available |         |        |               |

## Sensitisation

## Sensitisation by skin contact

| Ingredient(s)    |  | Result          | Species | Method                    | Exposure time (h) |
|------------------|--|-----------------|---------|---------------------------|-------------------|
| sodium hydroxide |  | Not sensitising |         | Human repeated patch test |                   |

## Sensitisation by inhalation

| Ingredient(s)    |  | Result            | Species | Method | Exposure time |
|------------------|--|-------------------|---------|--------|---------------|
| sodium hydroxide |  | No data available |         |        |               |

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

## Mutagenicity

| Ingredient(s)    |  | Result (in-vitro)                                   | Method (in-vitro)                           | Result (in-vivo)                                    | Method (in-vivo)                      |
|------------------|--|---|---|---|---------------------------------------|
| sodium hydroxide |  | No evidence for mutagenicity, negative test results | DNA repair test on rat hepatocytes OECD 473 | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) OECD 475 (EU B.11) |

## Carcinogenicity

| Ingredient(s)    |  | Effect  |
|------------------|--|---|
| sodium hydroxide |  | No evidence for carcinogenicity, weight-of-evidence |

## Toxicity for reproduction

| Ingredient(s)    | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported   |
|------------------|----------|-----------------|--------------------|---------|--------|---------------|--|
| sodium hydroxide |          |                 | No data available  |         |        |               | No evidence for developmental toxicity No evidence for reproductive toxicity |

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

| Ingredient(s)    |  | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|------------------|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| sodium hydroxide |  |          | No data available  |         |        |                      |                                      |

## Sub-chronic dermal toxicity

| Ingredient(s)    |  | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|------------------|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| sodium hydroxide |  |          | No data available  |         |        |                      |                                      |

## Sub-chronic inhalation toxicity

| Ingredient(s)    |  | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|------------------|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| sodium hydroxide |  |          | No data available  |         |        |                      |                                      |

## Chronic toxicity

| Ingredient(s)    | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|------------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| sodium hydroxide |                |          | No data            |         |        |               |                                      |        |

|  |  |  |           |  |  |  |  |  |
|--|--|--|-----------|--|--|--|--|--|
|  |  |  | available |  |  |  |  |  |
|--|--|--|-----------|--|--|--|--|--|

STOT-single exposure

| Ingredient(s)    | Affected organ(s) |
|------------------|-------------------|
| sodium hydroxide | No data available |

STOT-repeated exposure

| Ingredient(s)    | Affected organ(s) |
|------------------|-------------------|
| sodium hydroxide | No data available |

**Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3.

**Potential adverse health effects and symptoms**

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

**11.2.2 Other information**

No other relevant information available.

**SECTION 12: Ecological information****12.1 Toxicity**

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

**Aquatic short-term toxicity**

Aquatic short-term toxicity - fish

| Ingredient(s)    | Endpoint         | Value (mg/l) | Species                | Method           | Exposure time (h) |
|------------------|------------------|--------------|------------------------|------------------|-------------------|
| sodium hydroxide | LC <sub>50</sub> | 35           | <i>Various species</i> | Method not given | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)    | Endpoint         | Value (mg/l) | Species                 | Method           | Exposure time (h) |
|------------------|------------------|--------------|-------------------------|------------------|-------------------|
| sodium hydroxide | EC <sub>50</sub> | 40.4         | <i>Ceriodaphnia sp.</i> | Method not given | 48                |

Aquatic short-term toxicity - algae

| Ingredient(s)    | Endpoint         | Value (mg/l) | Species                           | Method           | Exposure time (h) |
|------------------|------------------|--------------|-----------------------------------|------------------|-------------------|
| sodium hydroxide | EC <sub>50</sub> | 22           | <i>Photobacterium phosphoreum</i> | Method not given | 0.25              |

Aquatic short-term toxicity - marine species

| Ingredient(s)    | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|------------------|----------|-------------------|---------|--------|----------------------|
| sodium hydroxide |          | No data available |         |        |                      |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s)    | Endpoint | Value (mg/l)      | Inoculum | Method | Exposure time |
|------------------|----------|-------------------|----------|--------|---------------|
| sodium hydroxide |          | No data available |          |        |               |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s)    | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|------------------|----------|-------------------|---------|--------|---------------|------------------|
| sodium hydroxide |          | No data available |         |        |               |                  |



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Aquatic long-term toxicity - crustacea

| Ingredient(s)    | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|------------------|----------|-------------------|---------|--------|---------------|------------------|
| sodium hydroxide |          | No data available |         |        |               |                  |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| sodium hydroxide |          | No data available         |         |        |                      |                  |

**Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium hydroxide |          | No data available     |         |        |                      |                  |

Terrestrial toxicity - plants, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium hydroxide |          | No data available     |         |        |                      |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)    | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-------------------|---------|--------|----------------------|------------------|
| sodium hydroxide |          | No data available |         |        |                      |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium hydroxide |          | No data available     |         |        |                      |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium hydroxide |          | No data available     |         |        |                      |                  |

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s)    | Half-life time | Method           | Evaluation              | Remark |
|------------------|----------------|------------------|-------------------------|--------|
| sodium hydroxide | 13 second(s)   | Method not given | Rapidly photodegradable |        |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s)    | Half-life time in fresh water | Method | Evaluation | Remark |
|------------------|-------------------------------|--------|------------|--------|
| sodium hydroxide | No data available             |        |            |        |

Abiotic degradation - other processes, if available:

| Ingredient(s)    | Type | Half-life time    | Method | Evaluation | Remark |
|------------------|------|-------------------|--------|------------|--------|
| sodium hydroxide |      | No data available |        |            |        |

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)    | Inoculum | Analytical method | DT <sub>50</sub> | Method | Evaluation                           |
|------------------|----------|-------------------|------------------|--------|--------------------------------------|
| sodium hydroxide |          |                   |                  |        | Not applicable (inorganic substance) |

Ready biodegradability - anaerobic and marine conditions, if available:

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| Ingredient(s)    | Medium & Type | Analytical method | DT <sub>50</sub> | Method | Evaluation        |
|------------------|---------------|-------------------|------------------|--------|-------------------|
| sodium hydroxide |               |                   |                  |        | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s)    | Medium & Type | Analytical method | DT <sub>50</sub> | Method | Evaluation        |
|------------------|---------------|-------------------|------------------|--------|-------------------|
| sodium hydroxide |               |                   |                  |        | No data available |

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log K<sub>ow</sub>)

| Ingredient(s)    | Value             | Method | Evaluation                           | Remark |
|------------------|-------------------|--------|--------------------------------------|--------|
| sodium hydroxide | No data available |        | Not relevant, does not bioaccumulate |        |

Bioconcentration factor (BCF)

| Ingredient(s)    | Value             | Species | Method | Evaluation | Remark |
|------------------|-------------------|---------|--------|------------|--------|
| sodium hydroxide | No data available |         |        |            |        |

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s)    | Adsorption coefficient Log K <sub>oc</sub> | Desorption coefficient Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation     |
|------------------|--|--|--------|--------------------|----------------|
| sodium hydroxide | No data available                          |  |        |                    | Mobile in soil |

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Endocrine disrupting properties**

Endocrine disrupting properties - Environmental effects, if available:

**12.7 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

**Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.  
20 01 15\* - alkalines.

**European Waste Catalogue:**

**Empty packaging**

**Recommendation:**

**Suitable cleaning agents:**

Dispose of observing national or local regulations.  
Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

**14.1 UN number or ID number:** 1824

**14.2 UN proper shipping name:**

Sodium hydroxide solution

**14.3 Transport hazard class(es):**

Transport hazard class (and subsidiary risks): 8

**14.4 Packing group:** II

**14.5 Environmental hazards:**

Environmentally hazardous: No

Marine pollutant: No

**14.6 Special precautions for user:** None known.

**14.7 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.

**Other relevant information:****ADR**

Classification code: C5

Tunnel restriction code: (E)

Hazard identification number: 80

**IMO/IMDG**

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations :**

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Regulation (EC) 648/2004 - Detergents regulation (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

**Ingredients according to Detergents Regulation**

Not applicable

**Comah - classification:** Not classified

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MSDS1850**Version:** 07.1**Revision:** 2023-02-23**Reason for revision:**

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006. This data sheet contains changes from the previous version in section(s):, 1, 4, 6, 7, 15, 16

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the H and EUH phrases mentioned in section 3:**

- H290 - May be corrosive to metals.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories

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- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

**End of Safety Data Sheet**