



## Cif Professional Degreaser Concentrate

Revision: 2022-01-30

Version: 06.0

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

#### 1.1 Product identifier

**Trade name:** Cif Professional Degreaser Concentrate  
*Cif is a registered trade mark and is used under licence of Unilever*

UFI: 94S1-Q0PW-700M-CJK6

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

**Product use:** Kitchen surface cleaner.  
Floor cleaner.  
For professional use only.

**Uses advised against:** Uses other than those identified are not recommended.

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

AISE\_SWED\_PW\_1\_1  
AISE\_SWED\_PW\_8a\_1  
AISE\_SWED\_PW\_10\_2  
AISE\_SWED\_PW\_11\_2  
AISE\_SWED\_PW\_19\_2

#### 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. 1B (H314)  
Eye Dam. 1 (H318)

#### 2.2 Label elements



**Signal word:** Danger.

Contains disodium/dipotassium metasilicate (Sodium/Potassium Metasilicate), alkyl alcohol ethoxylate (Trideceth 7-10)

#### Hazard statements:

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 |
|-----------------------------------|------------------------|------------|------------------|--|-------|----------------|
| disodium/dipotassium metasilicate | 215-687-4<br>215-199-1 | -          | [1]              | Skin Corr. 1B (H314)<br>STOT SE 3 (H335)<br>Eye Dam. 1 (H318)<br>Met. Corr. 1 (H290) |       | 3-10           |
| alkyl alcohol ethoxylate          | [4]                    | 69011-36-5 | [4]              | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)   |       | 3-10           |
| sodium cumenesulphonate           | 239-854-6              | -          | 01-2119489411-37 | Eye Irrit. 2 (H319)  |       | 3-10           |

#### Specific concentration limits

alkyl alcohol ethoxylate:

- Eye Dam. 1 (H318) >= 10% > Eye Irrit. 2 (H319) >= 1%

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

ATE, if available, are listed in section 11.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

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:

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. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

#### 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

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

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

**6.2 Environmental precautions**

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. Do not breathe spray. 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:

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 |
|-----------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| disodium/dipotassium metasilicate | -                          | -                             | -                         | -                            |
| alkyl alcohol ethoxylate          | -                          | -                             | -                         | -                            |
| sodium cumenesulphonate           | -                          | -                             | -                         | 3.8                          |

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) |
|-----------------------------------|----------------------------|--|---------------------------|---|
| disodium/dipotassium metasilicate | -                          | -  | -                         | 1.49                                    |
| alkyl alcohol ethoxylate          | -                          | -  | -                         | -                                       |
| sodium cumenesulphonate           | No data available          | -  | No data available         | 7.6                                     |

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) |
|-----------------------------------|----------------------------|--|---------------------------|---|
| disodium/dipotassium metasilicate | -                          | -  | ?                         | 1.38                                    |
| alkyl alcohol ethoxylate          | -                          | -  | -                         | -                                       |
| sodium cumenesulphonate           | No data available          | -  | No data available         | 3.8                                     |

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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 |
|-----------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| disodium/dipotassium metasilicate | -                          | -                             | -                         | -                            |
| alkyl alcohol ethoxylate          | -                          | -                             | -                         | -                            |
| sodium cumenesulphonate           | -                          | -                             | -                         | 53.6                         |

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

| Ingredient(s)                     | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-----------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| disodium/dipotassium metasilicate | -                          | -                             | -                         | -                            |
| alkyl alcohol ethoxylate          | -                          | -                             | -                         | -                            |
| sodium cumenesulphonate           | -                          | -                             | -                         | 13.2                         |

## 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) |
|-----------------------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| disodium/dipotassium metasilicate | -                           | -                            | -                   | -                             |
| alkyl alcohol ethoxylate          | -                           | -                            | -                   | -                             |
| sodium cumenesulphonate           | 0.23                        | 0.023                        | 2.3                 | 100                           |

Environmental exposure - PNEC, continued

| Ingredient(s)                     | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m <sup>3</sup> ) |
|-----------------------------------|------------------------------|--------------------------|--------------|--------------------------|
| disodium/dipotassium metasilicate | -                            | -                        | -            | -                        |
| alkyl alcohol ethoxylate          | -                            | -                        | -            | -                        |
| sodium cumenesulphonate           | 0.862                        | 0.086                    | 0.037        | -                        |

## 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.

**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   |
|------------------------------|--|-----|---------|----------------|-------|
| Manual transfer and dilution | AISE_SWED_PW_8a_1                                  | PW  | PROC 8a | 60             | ERC8a |
| Manual transfer and dilution | AISE_SWED_PW_1_1                                   | PW  | PROC 1  | 60             | ERC8a |

## 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: ≥ 480 min Material thickness: ≥ 0.7 mm

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

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

## Body protection:

No special requirements under normal use conditions. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

## Respiratory protection:

No special requirements under normal use conditions.

## 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): 33.3

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**Appropriate engineering controls:** Provide a good standard of general ventilation.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

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

|   | SWED              | LCS | PROC    | Duration (min) | ERC   |
|---|-------------------|-----|---------|----------------|-------|
| Manual application by brushing, wiping or mopping | AISE_SWED_PW_10_2 | PW  | PROC 10 | 480            | ERC8a |
| Spray application                                 | AISE_SWED_PW_11_2 | PW  | PROC 11 | 60             | ERC8a |
| Manual application                                | AISE_SWED_PW_19_2 | PW  | PROC 19 | 480            | ERC8a |

**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: ≥ 480 min Material thickness: ≥ 0.7 mm  
 Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm  
 In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:** No special requirements under normal use conditions. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided. Trigger spray bottle application: No special requirements under normal use conditions. 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

|   |                        |
|---|------------------------|
|   | <b>Method / remark</b> |
| <b>Physical state:</b> Liquid                                       |                        |
| <b>Colour:</b> Clear , Yellow                                       |                        |
| <b>Odour:</b> Product specific                                      |                        |
| <b>Odour threshold:</b> Not applicable                              |                        |
| <b>Melting point/freezing point (°C):</b> Not determined            | OECD 102               |
| <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) |
|-----------------------------------|-------------------|------------------|----------------------------|
| disodium/dipotassium metasilicate | No data available |                  |                            |
| alkyl alcohol ethoxylate          | > 200             | Method not given |                            |
| sodium cumenesulphonate           | > 100             | Method not given |                            |

|  |                        |
|--|------------------------|
|  | <b>Method / remark</b> |
| <b>Flammability (solid, gas):</b> Not applicable to liquids  |                        |
| <b>Flammability (liquid):</b> Not flammable.   |                        |
| <b>Flash point (°C):</b> Not applicable.   |                        |
| <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:

|   |                        |
|---|------------------------|
|   | <b>Method / remark</b> |
| <b>Autoignition temperature:</b> Not determined               |                        |
| <b>Decomposition temperature:</b> Not applicable.             |                        |
| <b>pH:</b> > 11 (neat)  | ISO 4316               |
| <b>Dilution pH:</b> > 11 (33 %)                               | ISO 4316               |
| <b>Kinematic viscosity:</b> Not determined                    |                        |
| <b>Solubility in / Miscibility with Water:</b> Fully miscible |                        |

Substance data, solubility in water

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| Ingredient(s)                     | Value (g/l)       | Method           | Temperature (°C) |
|-----------------------------------|-------------------|------------------|------------------|
| disodium/dipotassium metasilicate | No data available |                  |                  |
| alkyl alcohol ethoxylate          | Soluble           | Method not given | 20               |
| sodium cumenesulphonate           | Soluble           |                  |                  |

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

**Vapour pressure:** Not determined

**Method / remark**

See substance data

Substance data, vapour pressure

| Ingredient(s)                     | Value (Pa)        | Method           | Temperature (°C) |
|-----------------------------------|-------------------|------------------|------------------|
| disodium/dipotassium metasilicate | No data available |                  |                  |
| alkyl alcohol ethoxylate          | Negligible        | Method not given | 20-25            |
| sodium cumenesulphonate           | No data available |                  |                  |

**Relative density:**  $\approx 1.11$  (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.

**Oxidising properties:** Not oxidising.

**Corrosion to metals:** Not corrosive

EC 440/2008 A14

EC 440/2008 A17-A21

Weight of evidence

**9.2.2 Other safety characteristics**

No other relevant information available.

**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**

Reacts with acids.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Mixture data:.

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >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)     |
|-----------------------------------|----------|---------------|---------|--------|-------------------|-----------------|
| disodium/dipotassium metasilicate |          | No data       |         |        |                   | Not established |

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|                          |                  |            |     |                        |  |                 |
|--------------------------|------------------|------------|-----|------------------------|--|-----------------|
|                          |                  | available  |     |                        |  |                 |
| alkyl alcohol ethoxylate | LD <sub>50</sub> | > 300-2000 | Rat | OECD 423 (EU B.1 tris) |  | 11000           |
| sodium cumenesulphonate  | LD <sub>50</sub> | > 7000     | Rat | Method not given       |  | Not established |

## Acute dermal toxicity

| Ingredient(s)                     | Endpoint         | Value (mg/kg)     | Species | Method           | Exposure time (h) | ATE (mg/kg)     |
|-----------------------------------|------------------|-------------------|---------|------------------|-------------------|-----------------|
| disodium/dipotassium metasilicate |                  | No data available |         |                  |                   | Not established |
| alkyl alcohol ethoxylate          | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given |                   | Not established |
| sodium cumenesulphonate           | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given |                   | Not established |

## Acute inhalative toxicity

| Ingredient(s)                     | Endpoint         | Value (mg/l)      | Species | Method           | Exposure time (h) |
|-----------------------------------|------------------|-------------------|---------|------------------|-------------------|
| disodium/dipotassium metasilicate |                  | No data available |         |                  |                   |
| alkyl alcohol ethoxylate          |                  | No data available |         |                  |                   |
| sodium cumenesulphonate           | LC <sub>50</sub> | > 770             | Rat     | Method not given | 4                 |

## 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) |
|-----------------------------------|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| disodium/dipotassium metasilicate | Not established               | Not established               | Not established                 | Not established              |
| alkyl alcohol ethoxylate          | Not established               | Not established               | Not established                 | Not established              |
| sodium cumenesulphonate           | Not established               | Not established               | Not established                 | Not established              |

## Irritation and corrosivity

## Skin irritation and corrosivity

| Ingredient(s)                     | Result            | Species | Method            | Exposure time |
|-----------------------------------|-------------------|---------|-------------------|---------------|
| disodium/dipotassium metasilicate | No data available |         |                   |               |
| alkyl alcohol ethoxylate          | Not irritant      | Rabbit  | OECD 404 (EU B.4) |               |
| sodium cumenesulphonate           | Mild irritant     | Rabbit  | OECD 404 (EU B.4) |               |

## Eye irritation and corrosivity

| Ingredient(s)                     | Result            | Species | Method            | Exposure time |
|-----------------------------------|-------------------|---------|-------------------|---------------|
| disodium/dipotassium metasilicate | No data available |         |                   |               |
| alkyl alcohol ethoxylate          | Severe damage     | Rabbit  | Method not given  |               |
| sodium cumenesulphonate           | Irritant          | Rabbit  | OECD 405 (EU B.5) |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)                     | Result            | Species | Method | Exposure time |
|-----------------------------------|-------------------|---------|--------|---------------|
| disodium/dipotassium metasilicate | No data available |         |        |               |
| alkyl alcohol ethoxylate          | No data available |         |        |               |
| sodium cumenesulphonate           | No data available |         |        |               |

## Sensitisation

## Sensitisation by skin contact

| Ingredient(s)                     | Result            | Species    | Method                   | Exposure time (h) |
|-----------------------------------|-------------------|------------|--------------------------|-------------------|
| disodium/dipotassium metasilicate | No data available |            |                          |                   |
| alkyl alcohol ethoxylate          | Not sensitising   | Guinea pig | Method not given         |                   |
| sodium cumenesulphonate           | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / GPMT |                   |

## Sensitisation by inhalation

| Ingredient(s)                     | Result            | Species | Method | Exposure time |
|-----------------------------------|-------------------|---------|--------|---------------|
| disodium/dipotassium metasilicate | No data available |         |        |               |
| alkyl alcohol ethoxylate          | No data available |         |        |               |
| sodium cumenesulphonate           | 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) |
|-----------------------------------|--|-------------------|--|------------------|
| disodium/dipotassium metasilicate | No data available                                  |                   | No data available                                  |                  |
| alkyl alcohol ethoxylate          | No evidence of genotoxicity, negative test results | Method not given  | No evidence of genotoxicity, negative test results | Method not given |

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|                         |   |                  |   |                    |
|-------------------------|---|------------------|---|--------------------|
| sodium cumenesulphonate | No evidence for mutagenicity, negative test results | Method not given | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
|-------------------------|---|------------------|---|--------------------|

## Carcinogenicity

| Ingredient(s)                     | Effect   |
|-----------------------------------|--|
| disodium/dipotassium metasilicate | No data available                                      |
| alkyl alcohol ethoxylate          | No evidence for carcinogenicity, weight-of-evidence    |
| sodium cumenesulphonate           | No evidence for carcinogenicity, negative test results |

## Toxicity for reproduction

| Ingredient(s)                     | Endpoint | Specific effect     | Value (mg/kg bw/d) | Species | Method             | Exposure time | Remarks and other effects reported               |
|-----------------------------------|----------|---------------------|--------------------|---------|--------------------|---------------|--|
| disodium/dipotassium metasilicate |          |                     | No data available  |         |                    |               |  |
| alkyl alcohol ethoxylate          | NOAEL    | Teratogenic effects | > 50               | Rat     | Not known          |               | No known significant effects or critical hazards |
| sodium cumenesulphonate           | NOAEL    | Teratogenic effects | > 3000             | Rat     | Non guideline test |               |  |

## 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 |
|-----------------------------------|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| disodium/dipotassium metasilicate |          | No data available  |         |                    |                      |                                      |
| alkyl alcohol ethoxylate          |          | No data available  |         |                    |                      |                                      |
| sodium cumenesulphonate           | NOAEL    | 763 - 3534         |         | OECD 408 (EU B.26) | 90                   |                                      |

## Sub-chronic dermal toxicity

| Ingredient(s)                     | Endpoint | Value (mg/kg bw/d) | Species | Method           | Exposure time (days) | Specific effects and organs affected |
|-----------------------------------|----------|--------------------|---------|------------------|----------------------|--------------------------------------|
| disodium/dipotassium metasilicate |          | No data available  |         |                  |                      |                                      |
| alkyl alcohol ethoxylate          |          | No data available  |         |                  |                      |                                      |
| sodium cumenesulphonate           | NOAEL    | 440                | Mouse   | Method not given | 90                   |                                      |

## Sub-chronic inhalation toxicity

| Ingredient(s)                     | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-----------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| disodium/dipotassium metasilicate |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate          |          | No data available  |         |        |                      |                                      |
| sodium cumenesulphonate           |          | 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 |
|-----------------------------------|----------------|----------|--------------------|---------|------------------|---------------|--------------------------------------|--------|
| disodium/dipotassium metasilicate |                |          | No data available  |         |                  |               |                                      |        |
| alkyl alcohol ethoxylate          | Oral           | NOAEL    | 50                 | Rat     | Method not given | 24 month(s)   | Effects on organ weights             |        |
| sodium cumenesulphonate           | Dermal         | NOAEL    | 727                | Mouse   | Method not given | 24 month(s)   |                                      |        |

## STOT-single exposure

| Ingredient(s)                     | Affected organ(s) |
|-----------------------------------|-------------------|
| disodium/dipotassium metasilicate | No data available |
| alkyl alcohol ethoxylate          | Not applicable    |
| sodium cumenesulphonate           | No data available |

## STOT-repeated exposure

| Ingredient(s)                     | Affected organ(s) |
|-----------------------------------|-------------------|
| disodium/dipotassium metasilicate | No data available |
| alkyl alcohol ethoxylate          | Not applicable    |
| sodium cumenesulphonate           | 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) |
|-----------------------------------|------------------|-------------------|------------------------|--------------------|-------------------|
| disodium/dipotassium metasilicate |                  | No data available |                        |                    |                   |
| alkyl alcohol ethoxylate          | LC <sub>50</sub> | 1 - 10            | <i>Cyprinus carpio</i> | OECD 203 (EU C.1)  | 96                |
| sodium cumenesulphonate           | LC <sub>50</sub> | > 1000            | <i>Fish</i>            | EPA-OPPTS 850.1075 | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)                     | Endpoint         | Value (mg/l)      | Species                     | Method             | Exposure time (h) |
|-----------------------------------|------------------|-------------------|-----------------------------|--------------------|-------------------|
| disodium/dipotassium metasilicate |                  | No data available |                             |                    |                   |
| alkyl alcohol ethoxylate          | EC <sub>50</sub> | 1 - 10            | <i>Daphnia magna</i> Straus | OECD 202, static   | 48                |
| sodium cumenesulphonate           | EC <sub>50</sub> | > 1000            | <i>Daphnia</i>              | EPA-OPPTS 850.1010 | 48                |

Aquatic short-term toxicity - algae

| Ingredient(s)                     | Endpoint                       | Value (mg/l)      | Species                        | Method           | Exposure time (h) |
|-----------------------------------|--------------------------------|-------------------|--------------------------------|------------------|-------------------|
| disodium/dipotassium metasilicate |                                | No data available |                                |                  |                   |
| alkyl alcohol ethoxylate          | EC <sub>50</sub>               | 1 - 10            | <i>Desmodesmus subspicatus</i> | OECD 201, static | 72                |
| sodium cumenesulphonate           | E <sub>r</sub> C <sub>50</sub> | 310               | <i>Not specified</i>           |                  | 72                |

Aquatic short-term toxicity - marine species

| Ingredient(s)                     | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|-----------------------------------|----------|-------------------|---------|--------|----------------------|
| disodium/dipotassium metasilicate |          | No data available |         |        |                      |
| alkyl alcohol ethoxylate          |          | No data available |         |        |                      |
| sodium cumenesulphonate           |          | No data available |         |        |                      |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                     | Endpoint                       | Value (mg/l)      | Inoculum                | Method             | Exposure time |
|-----------------------------------|--------------------------------|-------------------|-------------------------|--------------------|---------------|
| disodium/dipotassium metasilicate |                                | No data available |                         |                    |               |
| alkyl alcohol ethoxylate          | EC <sub>10</sub>               | > 10000           | <i>Activated sludge</i> | DIN 38412 / Part 8 | 17 hour(s)    |
| sodium cumenesulphonate           | E <sub>r</sub> C <sub>50</sub> | > 1000            | <i>Bacteria</i>         | OECD 209           | 3 hour(s)     |

#### Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s)                     | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|-----------------------------------|----------|-------------------|---------|--------|---------------|------------------|
| disodium/dipotassium metasilicate |          | No data available |         |        |               |                  |
| alkyl alcohol ethoxylate          |          | No data           |         |        |               |                  |

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|                         |  |                   |  |  |  |  |
|-------------------------|--|-------------------|--|--|--|--|
|                         |  | available         |  |  |  |  |
| sodium cumenesulphonate |  | No data available |  |  |  |  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)                     | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|-----------------------------------|----------|-------------------|---------|--------|---------------|------------------|
| disodium/dipotassium metasilicate |          | No data available |         |        |               |                  |
| alkyl alcohol ethoxylate          |          | No data available |         |        |               |                  |
| sodium cumenesulphonate           |          | 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 |
|-----------------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| disodium/dipotassium metasilicate |          | No data available         |         |        |                      |                  |
| alkyl alcohol ethoxylate          |          | No data available         |         |        |                      |                  |
| sodium cumenesulphonate           |          | 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 |
|--------------------------|----------|-----------------------|-----------------------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate | NOEC     | 220                   | <i>Eisenia fetida</i> |        |                      |                  |
| sodium cumenesulphonate  |          | No data available     |                       |        |                      |                  |

## Terrestrial toxicity - plants, if available:

| Ingredient(s)            | Endpoint | Value (mg/kg dw soil) | Species                 | Method   | Exposure time (days) | Effects observed |
|--------------------------|----------|-----------------------|-------------------------|----------|----------------------|------------------|
| alkyl alcohol ethoxylate | NOEC     | 10                    | <i>Lepidium sativum</i> | OECD 208 |                      |                  |
| sodium cumenesulphonate  |          | No data available     |                         |          |                      |                  |

## Terrestrial toxicity - birds, if available:

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

## Abiotic degradation - hydrolysis, if available:

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

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Abiotic degradation - other processes, if available:

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

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)                     | Inoculum                 | Analytical method          | DT <sub>50</sub>    | Method    | Evaluation                           |
|-----------------------------------|--------------------------|----------------------------|---------------------|-----------|--------------------------------------|
| disodium/dipotassium metasilicate |                          |                            |                     |           | Not applicable (inorganic substance) |
| alkyl alcohol ethoxylate          | Activated sludge, aerobe | CO <sub>2</sub> production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable                |
| sodium cumenesulphonate           | Activated sludge, aerobe | CO <sub>2</sub> production | 100 % in 28 day(s)  | OECD 301B | Readily biodegradable                |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s)                     | Medium & Type | Analytical method | DT <sub>50</sub> | Method | Evaluation                           |
|-----------------------------------|---------------|-------------------|------------------|--------|--------------------------------------|
| disodium/dipotassium metasilicate |               |                   |                  |        | Not applicable (inorganic substance) |
| sodium cumenesulphonate           |               |                   |                  |        | No data available                    |

Degradation in relevant environmental compartments, if available:

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

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s)                     | Value             | Method           | Evaluation                        | Remark |
|-----------------------------------|-------------------|------------------|-----------------------------------|--------|
| disodium/dipotassium metasilicate | No data available |                  |                                   |        |
| alkyl alcohol ethoxylate          | -                 |                  | No bioaccumulation expected       |        |
| sodium cumenesulphonate           | -1.1              | Method not given | Low potential for bioaccumulation |        |

Bioconcentration factor (BCF)

| Ingredient(s)                     | Value             | Species | Method | Evaluation                  | Remark |
|-----------------------------------|-------------------|---------|--------|-----------------------------|--------|
| disodium/dipotassium metasilicate | No data available |         |        |                             |        |
| alkyl alcohol ethoxylate          | -                 |         |        | No bioaccumulation expected |        |
| sodium cumenesulphonate           | 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                   |
|-----------------------------------|--|--|--------|--------------------|------------------------------|
| disodium/dipotassium metasilicate | No data available                          |  |        |                    |                              |
| alkyl alcohol ethoxylate          | No data available                          |  |        |                    | Immobile in soil or sediment |
| sodium cumenesulphonate           | No data available                          |  |        |                    |                              |

**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:****European Waste Catalogue:**

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.

**SECTION 14: Transport information****Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)****14.1 UN number:** 1719**14.2 UN proper shipping name:**

Caustic alkali liquid, n.o.s. ( disodium-/dipotassium trioxosilicate )

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

Transport hazard class (and subsidiary risks): 8

**14.4 Packing group:** III**14.5 Environmental hazards:**

Environmentally hazardous: No

Marine pollutant: No

**14.6 Special precautions for user:** None known.**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** 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**

phosphates

5 - 15 %

non-ionic surfactants, anionic surfactants

&lt; 5 %

perfumes

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**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*

**Cif Professional Degreaser Concentrate****SDS code:** MS1001912**Version:** 06.0**Revision:** 2022-01-30**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, 2, 7, 8, 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.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.

**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 - Organization for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

**End of Safety Data Sheet**