



# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 26/03/2025 Revision date: 26/03/2025 Version: 2.3

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : HG limescale remover foam spray super powerful  
UFI : G732-SRAE-D107-1P0A  
Product code : 605 ART  
Type of product : Detergent  
Product group : Trade product

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

##### Relevant identified uses

Intended for general public  
Main use category : Consumer use

##### Uses advised against

Restrictions on use : All other uses not recommended above

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

##### Manufacturer

HG International B.V.  
P.J. Oudweg 41  
NL 1314 CJ Almere  
The Netherlands  
T +31 (0)36 54 94 700  
[safety@hg.eu](mailto:safety@hg.eu), [www.hg.eu](http://www.hg.eu)

#### 1.4. Emergency telephone number

Emergency number : +31 (0)36 54 94 777  
Only for medical personnel  
Mon-Fri 09:00 AM - 05:00 PM (CEST)

| Country/Area | Organisation/Company                                     | Address                                  | Emergency number   | Comment |
|--------------|--|--|--|---------|
| Ireland      | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |

### SECTION 2: Hazards identification

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

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

Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 1 H314  
Serious eye damage/eye irritation, Category 1 H318  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.

# HG limescale remover foam spray super powerful

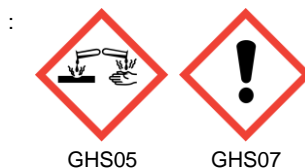
## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

Child-resistant fastening

Tactile warning

- : Danger
- : Phosphoric acid
- : H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- : P101 - If medical advice is needed, have product container or label at hand.
- P102 - Keep out of reach of children.
- P270 - Do not eat, drink or smoke when using this product.
- P280 - Wear eye protection, protective gloves.
- 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.
- P501 - Dispose of contents and container to a hazardous or special waste collection point.
- : Applicable
- : Applicable

### 2.3. Other hazards

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

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name   | Product identifier  | Conc.<br>(% w/w) | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]        |
|--|---|------------------|--|
| Phosphoric acid<br>substance with a Community workplace exposure limit<br>(Note B) | CAS-No.: 7664-38-2<br>EC-No.: 231-633-2<br>EC Index-No.: 015-011-00-6<br>REACH-no: 01-2119485924-24 | $\geq 15 - < 25$ | Met. Corr. 1, H290<br>Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314       |
| D-Glucopyranose, oligomers, decyl octyl glycosides                                 | CAS-No.: 68515-73-1<br>EC-No.: 500-220-1<br>REACH-no: 01-2119488530-36                              | $\geq 2 - < 5$   | Eye Dam. 1, H318   |
| Isotridecanol, ethoxylated   | CAS-No.: 69011-36-5<br>EC-No.: 500-241-6  | $\geq 1 - < 2$   | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318                                |
| oxalic acid<br>substance with a Community workplace exposure limit                 | CAS-No.: 144-62-7<br>EC-No.: 205-634-3<br>EC Index-No.: 607-006-00-8<br>REACH-no: 01-2119534576-33  | $\geq 1 - < 2$   | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Eye Dam. 1, H318 |

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Name                                | Product identifier  | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|-------------------------------------|---|---------------|--|
| N,N-dimethyltetradecylamine N-oxide | CAS-No.: 3332-27-2<br>EC-No.: 222-059-3<br>REACH-no: 01-2119949262-37 | ≥ 0.1 – < 1   | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |

| Specific concentration limits: |   |   |
|--------------------------------|---|---|
| Name                           | Product identifier  | Specific concentration limits (Conc. (% w/w))   |
| Phosphoric acid                | CAS-No.: 7664-38-2<br>EC-No.: 231-633-2<br>EC Index-No.: 015-011-00-6<br>REACH-no: 01-2119485924-24 | (10 ≤ C < 25) Skin Irrit. 2; H315<br>(10 ≤ C < 25) Eye Irrit. 2; H319<br>(25 ≤ C ≤ 100) Skin Corr. 1B; H314 |
| Isotridecanol, ethoxylated     | CAS-No.: 69011-36-5<br>EC-No.: 500-241-6  | (1 ≤ C < 10) Eye Irrit. 2; H319<br>(10 ≤ C < 100) Eye Dam. 1; H318  |

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Call a physician immediately.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.  |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Call a physician immediately.   |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : Burns.  |
| Symptoms/effects after eye contact  | : Serious damage to eyes.   |
| Symptoms/effects after ingestion    | : Burns.  |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

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

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

#### For non-emergency personnel

|                      |  |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment.  |
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. Do not touch or walk on the spilled product. Take off contaminated clothing. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. |

#### For emergency responders

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

### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |  |
|-------------------------|--|
| For containment         | : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Stop leak if safe to do so.  |
| Other information       | : Dispose of materials or solid residues at an authorized site.  |

### 6.4. Reference to other sections

See Section 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

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

|                        |   |
|------------------------|---|
| Technical measures     | : Keep in a cool, well-ventilated place away from heat. |
| Storage conditions     | : Store locked up.                                      |
| Incompatible materials | : Basic.  |
| Storage temperature    | : 0 – 35 °C   |

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Packaging materials : Store always product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| oxalic acid (144-62-7)                             |   |
|--|---|
| EU - Indicative Occupational Exposure Limit (IOEL) |   |
| Local name   | Oxalic acid   |
| IOEL TWA   | 1 mg/m <sup>3</sup>                                   |
| Regulatory reference                               | COMMISSION DIRECTIVE 2006/15/EC                       |
| Ireland - Occupational Exposure Limits             |   |
| Local name   | Oxalic acid   |
| OEL TWA  | 1 mg/m <sup>3</sup>                                   |
| Remark   | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference                               | Chemical Agents Code of Practice 2024                 |
| Phosphoric acid (7664-38-2)                        |   |
| EU - Indicative Occupational Exposure Limit (IOEL) |   |
| Local name   | Orthophosphoric acid                                  |
| IOEL TWA   | 1 mg/m <sup>3</sup>                                   |
| IOEL STEL  | 2 mg/m <sup>3</sup>                                   |
| Regulatory reference                               | COMMISSION DIRECTIVE 2000/39/EC                       |
| Ireland - Occupational Exposure Limits             |   |
| Local name   | Orthophosphoric acid [Phosphoric acid]                |
| OEL TWA  | 1 mg/m <sup>3</sup>                                   |
| OEL STEL   | 2 mg/m <sup>3</sup>                                   |
| Remark   | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference                               | Chemical Agents Code of Practice 2024                 |

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

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



# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Eye and face protection

#### Eye protection:

Safety glasses with side shields. Safety glasses

| Eye protection                   |                       |                 |          |
|----------------------------------|-----------------------|-----------------|----------|
| Type                             | Field of application  | Characteristics | Standard |
| Safety glasses with side shields | Normal use conditions |                 | EN 166   |
| Chemical goggles or face shield  | Droplet               |                 | EN 166   |

### Skin protection

#### Skin and body protection:

Long sleeved protective clothing. Chemical resistant safety shoes

| Skin and body protection           |              |
|------------------------------------|--------------|
| Type                               | Standard     |
| Long sleeved protective clothing   |              |
| Chemical resistant safety shoes    | EN ISO 20345 |
| Use chemically protective clothing | EN 13034     |

#### Hand protection:

Protective gloves

| Hand protection   |                      |                   |                |             |            |
|-------------------|----------------------|-------------------|----------------|-------------|------------|
| Type              | Material             | Permeation        | Thickness (mm) | Penetration | Standard   |
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0.35 mm        |             | EN ISO 374 |
| Disposable gloves | Butyl rubber         | 6 (> 480 minutes) | 0.5 mm         |             | EN ISO 374 |

### Respiratory protection

#### Respiratory protection:

No respiratory protection needed under normal use conditions. In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                           |                   |
|---------------------------|-------------------|
| Physical state            | : Liquid          |
| Colour                    | : Yellow.         |
| Odour                     | : Characteristic. |
| Odour threshold           | : Not available   |
| Melting point             | : Not applicable  |
| Freezing point            | : Not available   |
| Boiling point             | : Not available   |
| Flammability              | : Non flammable.  |
| Lower explosion limit     | : Not available   |
| Upper explosion limit     | : Not available   |
| Flash point               | : > 65 °C         |
| Auto-ignition temperature | : Not available   |
| Decomposition temperature | : Not available   |
| pH                        | : 0.5 – 1.5       |
| pH solution concentration | : 100 %           |
| Viscosity, kinematic      | : Not available   |

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|   |                     |
|---|---------------------|
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density   | : 1.04 – 1.05 g/ml  |
| Relative density                                | : Not available     |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Bases.

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

|                             |   |
|-----------------------------|---|
| Acute toxicity (oral)       | : Harmful if swallowed.   |
| Acute toxicity (dermal)     | : Not classified (Conclusive but not sufficient for classification) |
| Acute toxicity (inhalation) | : Not classified (Conclusive but not sufficient for classification) |

| HG limescale remover foam spray super powerful                  |   |
|---|---|
| ATE CLP (oral)  | 1334.257 mg/kg bodyweight   |
| Isotridecanol, ethoxylated (69011-36-5)                         |   |
| LD50 oral   | > 2000 mg/kg bodyweight   |
| LD50 dermal rat   | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)  |
| LD50 dermal rabbit  | ≈ 5960 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:  |
| D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1) |   |
| LD50 oral rat   | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method) |
| LD50 dermal rabbit  | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)   |

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|  |  |
|--|--|
| <b>D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)</b> |  |
| LD50 dermal  | > 2000 mg/kg bodyweight  |
| <b>oxalic acid (144-62-7)</b>  |  |
| LD50 oral rat  | 375 mg/kg  |
| LD50 dermal rabbit   | 20000 mg/kg bodyweight Animal: rabbit  |
| <b>N,N-dimethyltetradecylamine N-oxide (3332-27-2)</b>                 |  |
| LD50 oral rat  | 1064 mg/kg   |
| LD50 dermal rat  | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                       |
| <b>Phosphoric acid (7664-38-2)</b>                                     |  |
| LD50 oral rat  | 1.25 g/kg  |
| LD50 oral  | 301 mg/kg  |
| LD50 dermal rabbit   | 2740 mg/kg Source: ECHA  |
| Skin corrosion/irritation  | : Causes severe skin burns.<br>pH: 0.5 – 1.5   |
| <b>N,N-dimethyltetradecylamine N-oxide (3332-27-2)</b>                 |  |
| pH   | 7 – 9  |
| Serious eye damage/irritation  | : Causes serious eye damage.<br>pH: 0.5 – 1.5  |
| <b>N,N-dimethyltetradecylamine N-oxide (3332-27-2)</b>                 |  |
| pH   | 7 – 9  |
| Respiratory or skin sensitisation                                      | : Not classified (Conclusive but not sufficient for classification)  |
| Germ cell mutagenicity   | : Not classified (Conclusive but not sufficient for classification)  |
| Carcinogenicity  | : Not classified (Conclusive but not sufficient for classification)  |
| Reproductive toxicity  | : Not classified (Conclusive but not sufficient for classification)  |
| STOT-single exposure   | : Not classified (Conclusive but not sufficient for classification)  |
| STOT-repeated exposure   | : Not classified (Conclusive but not sufficient for classification)  |
| <b>Isotridecanol, ethoxylated (69011-36-5)</b>                         |  |
| NOAEL (oral, rat, 90 days)   | ≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)  |
| <b>N,N-dimethyltetradecylamine N-oxide (3332-27-2)</b>                 |  |
| NOAEL (oral, rat, 90 days)   | 40 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Aspiration hazard  | : Not classified (Conclusive but not sufficient for classification)  |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : Before neutralisation, the product may represent a danger to aquatic organisms. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Conclusive but not sufficient for classification)               |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Conclusive but not sufficient for classification)               |



# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Isotridecanol, ethoxylated (69011-36-5)                         |  |
|---|--|
| LC50 - Fish [1]   | > 1 mg/l   |
| EC50 - Crustacea [1]  | 1.5 mg/l Test organisms (species): Daphnia magna   |
| EC50 - Other aquatic organisms [1]                              | > 1 mg/l waterflea   |
| EC50 96h - Algae [1]  | 11.5 mg/l Source: EPISUITE v4.1  |
| D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1) |  |
| LC50 - Fish [1]   | 100.81 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)   |
| LC50 - Fish [2]   | 170 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)  |
| EC50 - Crustacea [1]  | > 100 mg/l Test organisms (species): Daphnia magna   |
| EC50 - Crustacea [2]  | 31.62 mg/l (OECD 202 method)   |
| EC50 72h - Algae [1]  | 27.22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)  |
| EC50 72h - Algae [2]  | 37 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)   |
| NOEC chronic fish   | 1.8 mg/l Brachydanio rerio (zebra-fish)  |
| NOEC chronic crustacea  | 2 mg/l Daphnia magna (Water flea)  |
| oxalic acid (144-62-7)  |  |
| LC50 - Fish [1]   | 160 mg/l   |
| EC50 - Crustacea [1]  | 162.2 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1]  | 19.83 – 21.35 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| N,N-dimethyltetradecylamine N-oxide (3332-27-2)                 |  |
| LC50 - Fish [1]   | 2.67 mg/l  |
| EC50 - Crustacea [1]  | 3.1 mg/l   |
| ErC50 algae   | 0.19 mg/l  |
| NOEC (chronic)  | 0.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| NOEC chronic fish   | 0.42 mg/l Test organisms (species): Pimephales promelas Duration: '302 d'  |
| Phosphoric acid (7664-38-2)                                     |  |
| LC50 - Fish [1]   | 75.1 mg/l Source: ECHA   |
| EC50 - Crustacea [1]  | > 100 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1]  | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)  |

## 12.2. Persistence and degradability

| HG limescale remover foam spray super powerful |   |
|--|---|
| Persistence and degradability                  | The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |
| Isotridecanol, ethoxylated (69011-36-5)        |   |
| Persistence and degradability                  | Rapidly degradable  |

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1) |                                    |
|---|------------------------------------|
| Persistence and degradability                                   | Readily biodegradable.             |
| Biodegradation  | 100 % (OECD 301E method)           |
| oxalic acid (144-62-7)  |                                    |
| Persistence and degradability                                   | Rapidly degradable                 |
| Biochemical oxygen demand (BOD)                                 | 0.16 g O <sub>2</sub> /g substance |
| Chemical oxygen demand (COD)                                    | 0.18 g O <sub>2</sub> /g substance |
| Biodegradation  | 40 %                               |
| N,N-dimethyltetradecylamine N-oxide (3332-27-2)                 |                                    |
| Persistence and degradability                                   | Rapidly degradable                 |
| Biodegradation  | 80 % (OECD 310 method)             |
| Phosphoric acid (7664-38-2)                                     |                                    |
| Persistence and degradability                                   | Rapidly degradable                 |

### 12.3. Bioaccumulative potential

| D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1) |                  |
|---|------------------|
| Bioconcentration factor (BCF REACH)                             | < 100            |
| Partition coefficient n-octanol/water (Log Kow)                 | ≤ -0.07 at 20 °C |
| oxalic acid (144-62-7)  |                  |
| Partition coefficient n-octanol/water (Log Pow)                 | -0.81            |
| N,N-dimethyltetradecylamine N-oxide (3332-27-2)                 |                  |
| Partition coefficient n-octanol/water (Log Pow)                 | 2.7              |
| Phosphoric acid (7664-38-2)                                     |                  |
| Partition coefficient n-octanol/water (Log Pow)                 | -0.77            |

### 12.4. Mobility in soil

| Isotridecanol, ethoxylated (69011-36-5)                         |   |
|---|---|
| Mobility in soil  | 111.3 Source: EPISUITE v4.1                           |
| D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1) |   |
| Mobility in soil  | 0.2624 Source: EPISUITE                               |
| N,N-dimethyltetradecylamine N-oxide (3332-27-2)                 |   |
| Mobility in soil  | 3.99 Source: Quantitative Structure Activity Relation |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878






### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|  |   |
|--|---|
| Regional waste regulation                  | : Dispose of in accordance with relevant local regulations.                                   |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.   |
| HP Code                                    | : HP8 - "Corrosive:" waste which on application can cause skin corrosion.                     |

### SECTION 14: Transport information

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

| ADR   | IMDG   | IATA  | ADN   | RID   |
|---|--|---|---|---|
| <b>14.1. UN number or ID number</b>   |  |   |   |   |
| UN 1760   | UN 1760  | UN 1760   | UN 1760   | UN 1760   |
| <b>14.2. UN proper shipping name</b>  |  |   |   |   |
| CORROSIVE LIQUID,<br>N.O.S. (Phosphoric acid)                                       | CORROSIVE LIQUID,<br>N.O.S. (Phosphoric acid)  | Corrosive liquid, n.o.s.<br>(Phosphoric acid)                                       | CORROSIVE LIQUID,<br>N.O.S. (Phosphoric acid)   | CORROSIVE LIQUID,<br>N.O.S. (Phosphoric acid)   |
| <b>Transport document description</b>   |  |   |   |   |
| UN 1760 CORROSIVE<br>LIQUID, N.O.S.<br>(Phosphoric acid), 8, III, (E)               | UN 1760 CORROSIVE<br>LIQUID, N.O.S.<br>(Phosphoric acid), 8, III   | UN 1760 Corrosive liquid,<br>n.o.s. (Phosphoric acid), 8,<br>III                    | UN 1760 CORROSIVE<br>LIQUID, N.O.S.<br>(Phosphoric acid), 8, III                      | UN 1760 CORROSIVE<br>LIQUID, N.O.S.<br>(Phosphoric acid), 8, III                      |
| <b>14.3. Transport hazard class(es)</b>   |  |   |   |   |
| 8   | 8  | 8   | 8   | 8   |
|  |                             |  |  |  |
| <b>14.4. Packing group</b>  |  |   |   |   |
| III   | III  | III   | III   | III   |
| <b>14.5. Environmental hazards</b>  |  |   |   |   |
| Dangerous for the<br>environment: No  | Dangerous for the<br>environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-B | Dangerous for the<br>environment: No  | Dangerous for the<br>environment: No  | Dangerous for the<br>environment: No  |
| No supplementary information available  |  |   |   |   |

#### 14.6. Special precautions for user

##### Overland transport

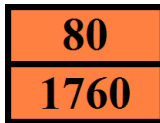
|   |                           |
|---|---------------------------|
| Classification code (ADR)                                 | : C9                      |
| Special provisions (ADR)                                  | : 274                     |
| Limited quantities (ADR)                                  | : 5I                      |
| Excepted quantities (ADR)                                 | : E1                      |
| Packing instructions (ADR)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR)                            | : MP19                    |
| Portable tank and bulk container instructions (ADR)       | : T7                      |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP28               |
| Tank code (ADR)   | : L4BN                    |

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Hazard identification number (Kemler No.) : 80  
Orange plates :



Tunnel restriction code (ADR) : E

### Transport by sea

Special provisions (IMDG) : 223, 274  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP28  
Stowage category (IMDG) : A  
Stowage and handling (IMDG) : SW2  
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

### Air transport

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

### Inland waterway transport

Classification code (ADN) : C9  
Special provisions (ADN) : 274  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : C9  
Special provisions (RID) : 274  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T7  
Portable tank and bulk container special provisions (RID) : TP1, TP28  
Tank codes for RID tanks (RID) : L4BN  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12  
Colis express (express parcels) (RID) : CE8  
Hazard identification number (RID) : 80

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

Not applicable

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 15: Regulatory information

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

##### EU-Regulations

##### REACH Annex XVII (Restriction List)

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

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

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

##### REACH Candidate List (SVHC)

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

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

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

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

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

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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

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

##### Detergent Regulation (648/2004)

| Labelling of contents                         |     |
|---|-----|
| Component                                     | %   |
| non-ionic surfactants, amphoteric surfactants | <5% |
| perfumes                                      |     |

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

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

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

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

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| BLV                         | Biological limit value  |
| BOD                         | Biochemical oxygen demand (BOD)   |
| COD                         | Chemical oxygen demand (COD)  |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| EC-No.                      | European Community number  |
| EC50                        | Median effective concentration   |
| EN                          | European Standard  |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration  |
| LD50                        | Median lethal dose   |
| LOAEL                       | Lowest Observed Adverse Effect Level   |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disruptor  |

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4                               |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                     |
| H290                                | May be corrosive to metals.                                       |
| H302                                | Harmful if swallowed.   |
| H312                                | Harmful in contact with skin.                                     |
| H314                                | Causes severe skin burns and eye damage.                          |
| H315                                | Causes skin irritation.   |

# HG limescale remover foam spray super powerful

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

|               |  |
|---------------|--|
| H318          | Causes serious eye damage.                             |
| H319          | Causes serious eye irritation.                         |
| H400          | Very toxic to aquatic life.                            |
| H411          | Toxic to aquatic life with long lasting effects.       |
| Met. Corr. 1  | Corrosive to metals, Category 1                        |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2                  |

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|                     |      |                       |
|---------------------|------|-----------------------|
| Acute Tox. 4 (Oral) | H302 | Calculation method    |
| Skin Corr. 1        | H314 | On basis of test data |
| Eye Dam. 1          | H318 | On basis of test data |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.