



# HG microwave cleaner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Issue date: 04/03/2023 Revision date: 17/07/2023 Supersedes version of: 04/03/2023 Version: 2.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : HG microwave cleaner  
UFI : UJRY-SGGU-G10G-5H2N  
Product code : 526 ART  
Type of product : Detergent  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Consumer use  
Use of the substance/mixture : Oven, grill or barbecue cleaners

##### 1.2.2. 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)

##### Importer

HG UKI LTD  
Weston Business Centre  
Parsonage Road  
UK- CM22 6PU Takeley – Essex  
United Kingdom  
T +44 (0) 1206 822 744  
[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 | 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]

Skin corrosion/irritation, Category 2 H315  
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

Causes serious eye irritation.

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### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Contains :

2-aminoethanol; ethanolamine

Hazard statements (CLP) :

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Precautionary statements (CLP) :

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P280 - Wear eye protection.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

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

Child-resistant fastening :

Not applicable

Tactile warning :

Not applicable

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                                                                           | Product identifier                                                                                 | Conc. (% w/w)   | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                  |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-methoxy-2-propanol; monopropylene glycol methyl ether<br>substance with a Community workplace exposure limit | CAS-No.: 107-98-2<br>EC-No.: 203-539-1<br>EC Index-No.: 603-064-00-3<br>REACH-no: 01-2119457435-35 | $\geq 7 - < 10$ | Flam. Liq. 3, H226<br>STOT SE 3, H336                                                                                                                            |
| 2-aminoethanol; ethanolamine<br>substance with a Community workplace exposure limit                            | CAS-No.: 141-43-5<br>EC-No.: 205-483-3<br>EC Index-No.: 603-030-00-8<br>REACH-no: 01-2119486455-28 | $\geq 2 - < 5$  | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Corr. 1B, H314<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 |
| 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                                                                                                                    |

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| Specific concentration limits: |                                                                                                    |                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Name                           | Product identifier                                                                                 | Specific concentration limits (Conc. (% w/w))                      |
| 2-aminoethanol; ethanolamine   | CAS-No.: 141-43-5<br>EC-No.: 205-483-3<br>EC Index-No.: 603-030-00-8<br>REACH-no: 01-2119486455-28 | (5 ≤ C ≤ 100) STOT SE 3, H335                                      |
| 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 |

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 after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                                                                                                 |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                                                                                                                                |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                                                                                                                           |

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

|                                    |                   |
|------------------------------------|-------------------|
| Symptoms/effects after eye contact | : Eye irritation. |
|------------------------------------|-------------------|

### 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. |
|------------------------------|--------------------------------------------------|

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

|                                                  |                                              |
|--------------------------------------------------|----------------------------------------------|
| Fire hazard                                      | : Intense heat may cause container to burst. |
| Hazardous decomposition products in case of fire | : Carbon dioxide. Carbon monoxide.           |

### 5.3. Advice for firefighters

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | : Do not handle until all safety precautions have been read and understood. |
|------------------|-----------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. Do not touch or walk on the spilled product. Avoid contact with skin and eyes. Do not breathe mist, vapours. |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.2. 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". |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

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### 6.2. Environmental precautions

Avoid release to the environment.

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

- For containment : Stop leak if safe to do so. Move containers from spill area. Dilute spills with water and mop up.
- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13 : "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : 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

- Storage conditions : Keep cool. Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed.
- Storage temperature : > 0 – < 30 °C
- Heat and ignition sources : Keep away from heat and direct sunlight.
- Special rules on packaging : Keep only in original container. Opened containers must be carefully closed and kept upright to avoid leakage.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| 2-aminoethanol; ethanolamine (141-43-5)            |                                 |
|----------------------------------------------------|---------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) |                                 |
| Local name                                         | 2-Aminoethanol                  |
| IOEL TWA                                           | 2.5 mg/m <sup>3</sup>           |
| IOEL TWA [ppm]                                     | 1 ppm                           |
| IOEL STEL                                          | 7.6 mg/m <sup>3</sup>           |
| IOEL STEL [ppm]                                    | 3 ppm                           |
| Remark                                             | Skin                            |
| Regulatory reference                               | COMMISSION DIRECTIVE 2006/15/EC |
| Ireland - Occupational Exposure Limits             |                                 |
| Local name                                         | 2-Aminoethanol [Ethanolamine]   |
| OEL TWA [1]                                        | 2.5 mg/m <sup>3</sup>           |
| OEL TWA [2]                                        | 1 ppm                           |

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| <b>2-aminoethanol; ethanolamine (141-43-5)</b>                            |                                                                                                                                                                                          |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OEL STEL                                                                  | 7.6 mg/m <sup>3</sup>                                                                                                                                                                    |
| OEL STEL [ppm]                                                            | 3 ppm                                                                                                                                                                                    |
| Remark                                                                    | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference                                                      | Chemical Agents Code of Practice 2021                                                                                                                                                    |
| <b>1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)</b> |                                                                                                                                                                                          |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b>                 |                                                                                                                                                                                          |
| Local name                                                                | 1-Methoxypropanol-2                                                                                                                                                                      |
| IOEL TWA                                                                  | 375 mg/m <sup>3</sup>                                                                                                                                                                    |
| IOEL TWA [ppm]                                                            | 100 ppm                                                                                                                                                                                  |
| IOEL STEL                                                                 | 568 mg/m <sup>3</sup>                                                                                                                                                                    |
| IOEL STEL [ppm]                                                           | 150 ppm                                                                                                                                                                                  |
| Remark                                                                    | Skin                                                                                                                                                                                     |
| Regulatory reference                                                      | COMMISSION DIRECTIVE 2000/39/EC                                                                                                                                                          |
| <b>Ireland - Occupational Exposure Limits</b>                             |                                                                                                                                                                                          |
| Local name                                                                | Propylene glycol monomethyl ether [1-Methoxypropan2-ol]                                                                                                                                  |
| OEL TWA [1]                                                               | 375 mg/m <sup>3</sup>                                                                                                                                                                    |
| OEL TWA [2]                                                               | 100 ppm                                                                                                                                                                                  |
| OEL STEL                                                                  | 568 mg/m <sup>3</sup>                                                                                                                                                                    |
| OEL STEL [ppm]                                                            | 150 ppm                                                                                                                                                                                  |
| Remark                                                                    | IOELV (Indicative Occupational Exposure Limit Values)                                                                                                                                    |
| Regulatory reference                                                      | Chemical Agents Code of Practice 2021                                                                                                                                                    |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Wear foot protection.

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### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

| Eye protection                   |                       |                 |          |
|----------------------------------|-----------------------|-----------------|----------|
| Type                             | Field of application  | Characteristics | Standard |
| Safety glasses with side shields | Normal use conditions |                 | EN 166   |

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Not required for normal conditions of use. If there is a risk of liquid being splashed : 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 |

##### Hand protection:

Protective gloves

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

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

##### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

|                 |                  |
|-----------------|------------------|
| Physical state  | : Liquid         |
| Colour          | : Colourless.    |
| Odour           | : Odourless.     |
| Odour threshold | : Not available  |
| Melting point   | : Not applicable |

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|                                                 |                         |
|-------------------------------------------------|-------------------------|
| Freezing point                                  | : Not available         |
| Boiling point                                   | : Not available         |
| Flammability                                    | : Non flammable.        |
| Lower explosion limit                           | : Not available         |
| Upper explosion limit                           | : Not available         |
| Flash point                                     | : > 100 °C (closed cup) |
| Auto-ignition temperature                       | : Not available         |
| Decomposition temperature                       | : Not available         |
| pH                                              | : 11 – 11.4             |
| pH solution concentration                       | : 100 %                 |
| Viscosity, kinematic                            | : Not available         |
| Solubility                                      | : Not available         |
| Partition coefficient n-octanol/water (Log Kow) | : Not available         |
| Vapour pressure                                 | : Not available         |
| Vapour pressure at 50°C                         | : Not available         |
| Density                                         | : Not available         |
| Relative density                                | : 1.002                 |
| Relative vapour density at 20°C                 | : Not available         |
| Particle characteristics                        | : Not applicable        |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

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

#### Isotridecanol, ethoxylated (69011-36-5)

|           |                         |
|-----------|-------------------------|
| LD50 oral | > 2000 mg/kg bodyweight |
|-----------|-------------------------|

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| <b>Isotridecanol, ethoxylated (69011-36-5)</b>                            |                                                                                                                                                                              |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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:                                                                                         |
| <b>2-aminoethanol; ethanolamine (141-43-5)</b>                            |                                                                                                                                                                              |
| LD50 oral rat                                                             | 1089 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:                                                           |
| LD50 oral                                                                 | 1515 mg/kg bodyweight                                                                                                                                                        |
| LD50 dermal rabbit                                                        | 2504 mg/kg Source: OECD SIDS                                                                                                                                                 |
| LD50 dermal                                                               | 2504 mg/kg bodyweight                                                                                                                                                        |
| LC50 Inhalation - Rat (Dust/Mist)                                         | 136 mg/l                                                                                                                                                                     |
| LC50 Inhalation - Rat (Vapours)                                           | > 1487 mg/l Source: ECHA                                                                                                                                                     |
| <b>1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)</b> |                                                                                                                                                                              |
| LD50 oral                                                                 | 3739 mg/kg bodyweight                                                                                                                                                        |
| LD50 dermal rat                                                           | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))                                                                                      |
| LD50 dermal                                                               | > 2000 mg/kg bodyweight                                                                                                                                                      |
| LC50 Inhalation - Rat (Dust/Mist)                                         | > 26315 mg/l                                                                                                                                                                 |
| Skin corrosion/irritation                                                 | : Causes skin irritation. (Conclusive but not sufficient for classification)<br>pH: 11 – 11.4                                                                                |
| <b>2-aminoethanol; ethanolamine (141-43-5)</b>                            |                                                                                                                                                                              |
| pH                                                                        | 12.1 Temp.: 20 Concentration: 100 g/L                                                                                                                                        |
| Serious eye damage/irritation                                             | : Causes serious eye damage.<br>pH: 11 – 11.4                                                                                                                                |
| <b>2-aminoethanol; ethanolamine (141-43-5)</b>                            |                                                                                                                                                                              |
| pH                                                                        | 12.1 Temp.: 20 Concentration: 100 g/L                                                                                                                                        |
| 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)                                                                                                          |
| <b>2-aminoethanol; ethanolamine (141-43-5)</b>                            |                                                                                                                                                                              |
| STOT-single exposure                                                      | May cause respiratory irritation.                                                                                                                                            |
| <b>1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)</b> |                                                                                                                                                                              |
| STOT-single exposure                                                      | May cause drowsiness or dizziness.                                                                                                                                           |
| 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>2-aminoethanol; ethanolamine (141-43-5)</b>                            |                                                                                                                                                                              |
| NOAEL (oral, rat, 90 days)                                                | 300 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: other:, Guideline: other:                                                                                    |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days)                          | 0.01 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study), Guideline: EU Method B.8 (Subacute Inhalation Toxicity: 28-Day Study) |



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### 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

|                                     |                                                                                                                                          |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LOAEL (oral, rat, 90 days)          | 2757 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days)          | 919 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)  |
| NOAEL (dermal, rat/rabbit, 90 days) | > 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)                   |

Aspiration hazard : Not classified (Conclusive but not sufficient for classification)

### 2-aminoethanol; ethanolamine (141-43-5)

|                      |                           |
|----------------------|---------------------------|
| Viscosity, kinematic | 23.392 mm <sup>2</sup> /s |
|----------------------|---------------------------|

### 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

|                      |                          |
|----------------------|--------------------------|
| Viscosity, kinematic | 1.848 mm <sup>2</sup> /s |
|----------------------|--------------------------|

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : 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 %

### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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)

### 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                  |

### 2-aminoethanol; ethanolamine (141-43-5)

|                                    |                                                                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                    | 349 mg/l Test organisms (species): Cyprinus carpio                                                                                       |
| EC50 - Crustacea [1]               | 27.04 mg/l Test organisms (species): Daphnia magna                                                                                       |
| EC50 - Other aquatic organisms [1] | 65 mg/l waterflea                                                                                                                        |
| EC50 - Other aquatic organisms [2] | 2.5 mg/l                                                                                                                                 |
| EC50 72h - Algae [1]               | 2.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2]               | 2.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

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| <b>2-aminoethanol; ethanolamine (141-43-5)</b> |                                                                      |
|------------------------------------------------|----------------------------------------------------------------------|
| ErC50 algae                                    | 2.1 mg/l Source: ECHA                                                |
| NOEC (chronic)                                 | 0.85 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC chronic fish                              | 1.24 mg/l Test organisms (species): Oryzias latipes Duration: '41 d' |

| <b>1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)</b> |                                                              |
|---------------------------------------------------------------------------|--------------------------------------------------------------|
| LC50 - Fish [1]                                                           | > 4600 mg/l                                                  |
| EC50 - Other aquatic organisms [1]                                        | 2954 mg/l Test organisms (species): other aquatic crustacea: |
| EC50 - Other aquatic organisms [2]                                        | > 500 mg/l                                                   |

### 12.2. Persistence and degradability

| <b>HG microwave cleaner</b>   |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |

### 12.3. Bioaccumulative potential

| <b>HG microwave cleaner</b> |                              |
|-----------------------------|------------------------------|
| Bioaccumulative potential   | No bioaccumulation expected. |

| <b>2-aminoethanol; ethanolamine (141-43-5)</b>  |       |
|-------------------------------------------------|-------|
| Partition coefficient n-octanol/water (Log Pow) | -1.31 |

| <b>1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)</b> |       |
|---------------------------------------------------------------------------|-------|
| Partition coefficient n-octanol/water (Log Pow)                           | -0.49 |

### 12.4. Mobility in soil

| <b>HG microwave cleaner</b> |                                       |
|-----------------------------|---------------------------------------|
| Ecology - soil              | Expected to be highly mobile in soil. |

| <b>Isotridecanol, ethoxylated (69011-36-5)</b> |                             |
|------------------------------------------------|-----------------------------|
| Mobility in soil                               | 111.3 Source: EPISUITE v4.1 |

### 12.5. Results of PBT and vPvB assessment

| <b>HG microwave cleaner</b>                                                            |  |
|----------------------------------------------------------------------------------------|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  |  |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |  |

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: 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 %.

### 12.7. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                                                                                                           |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional legislation (waste)               | : Dispose of in accordance with relevant local regulations.                                                                                                                                                                                               |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                                                                                                             |
| Product/Packaging disposal recommendations | : Empty containers retain product residue and can be hazardous. Do not dispose of the packaging without first carrying out the necessary cleaning. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. |
| Ecology - waste materials                  | : Recycling is preferred to disposal or incineration.                                                                                                                                                                                                     |
| European List of Waste (LoW) code          | : 20 01 29* - detergents containing dangerous substances<br>20 01 39 - plastics                                                                                                                                                                           |
| HP Code                                    | : HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.                                                                                                                           |

### 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>     |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.4. Packing group</b>              |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>      |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available  |                |                |                |                |

#### 14.6. Special precautions for user

##### Overland transport

Not applicable

##### Transport by sea

Not applicable

##### Air transport

Not applicable

##### Inland waterway transport

Not applicable

##### Rail transport

Not applicable

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

Not applicable

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### SECTION 15: Regulatory information

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

##### 15.1.1. 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)

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

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

###### 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)

##### 15.1.2. National regulations

No additional information available

#### 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                                                                         |
| EC-No.                      | European Community number                                                                       |

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| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| 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 disrupting properties                                              |

Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging. Ensure personnel is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

| Full text of H- and EUH-statements: |                                                                   |
|-------------------------------------|-------------------------------------------------------------------|
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4                               |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4                               |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                 |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |

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| Full text of H- and EUH-statements: |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                                              |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                                              |
| Flam. Liq. 3                        | Flammable liquids, Category 3                                                              |
| H226                                | Flammable liquid and vapour.                                                               |
| H302                                | Harmful if swallowed.                                                                      |
| H312                                | Harmful in contact with skin.                                                              |
| H314                                | Causes severe skin burns and eye damage.                                                   |
| H315                                | Causes skin irritation.                                                                    |
| H318                                | Causes serious eye damage.                                                                 |
| H319                                | Causes serious eye irritation.                                                             |
| H332                                | Harmful if inhaled.                                                                        |
| H335                                | May cause respiratory irritation.                                                          |
| H336                                | May cause drowsiness or dizziness.                                                         |
| H412                                | Harmful to aquatic life with long lasting effects.                                         |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

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.