

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : RINSE AID C12  
UFI : XNQR-845G-Q016-0XNJ  
Product code : 0S2094

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Industrial/Professional use spec : Professional use  
Function or use category : Rinse aid

**1.2.2. Uses advised against**

No additional information available

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

Electrolux professional S.p.A.  
Viale Treviso, 15  
Pordenone (PN) Italy  
T. +39 0434 3801  
epr.chemicals@electroluxprofessional.com

**1.4. Emergency telephone number**

Emergency number global: +44 1865 407333

Northern Ireland: +39 0434 3801 (from 08,30 to 12,30 - from 14,00 to 18,00);

Ireland: National Poisons Information Centre:01 809 2566 (24/7) For children's poisonings: 01 809 2166 (8 am – 10 pm, 7 days a week)

Cyprus: 1401

Europe: +44 1235 239670, middle east/africa: +44 1235 239671, Bangladesh: +65 3158 1200,

Africa/ South Africa: +27 21 300 2732, East/South East Asia: +65 3158 1074, India: +65 3158 1198, India (toll free): 000 800 100 7479,

Indonesia: 007 803 011 0293, Malaysia: +60 3 6207 4347, New Zealand: +64 9 929 1483, New Zealand (toll free): 0800 446 881,

Philippines: +63 2 8231 2149, Singapore: +65 3165 2217, Sri Lanka: +65 3158 1195

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Flammable liquids, Category 3 H226

Serious eye damage/eye irritation, Category 2 H319

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

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

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.

H319 - Causes serious eye irritation.

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

|                                |  |
|--------------------------------|--|
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.<br>P235 - Keep cool.<br>P280 - Wear eye protection, face protection.<br>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>P370+P378 - In case of fire: Use media other than water to extinguish.<br>P403+P235 - Store in a well-ventilated place. Keep cool. |
| Extra phrases                  | : Detergent Regulation (648/2004/EC): 15-30 %; non-ionic surfactants.  |

### 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 is not 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   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|---|
| ethanol; ethyl alcohol   | CAS-No.: 64-17-5<br>EC-No.: 200-578-6<br>EC Index-No.: 603-002-00-5<br>REACH-no: 01-2119457610-43-xxxx | 10 – 20 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319                        |
| citric acid  | CAS-No.: 77-92-9<br>EC-No.: 201-069-1<br>EC Index-No.: 607-750-00-3<br>REACH-no: 01-2119457026-42      | 10 – 15 | Eye Irrit. 2, H319<br>STOT SE 3, H335                           |
| Alcohols, C12-14, ethoxylated propoxylated                                     | CAS-No.: 68439-51-0<br>REACH-no: -   | 5 – 15  | Aquatic Chronic 3, H412   |
| propan-2-ol; isopropyl alcohol; isopropanol                                    | CAS-No.: 67-63-0<br>EC-No.: 200-661-7<br>EC Index-No.: 603-117-00-0<br>REACH-no: 2119457558-25-xxxx    | 1 – 6   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336     |
| Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated | CAS-No.: 501019-90-5<br>EC-No.: -<br>REACH-no: -   | 1 – 5   | Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412                   |

### Specific concentration limits:

| Name                   | Product identifier   | Specific concentration limits           |
|------------------------|--|---|
| ethanol; ethyl alcohol | CAS-No.: 64-17-5<br>EC-No.: 200-578-6<br>EC Index-No.: 603-002-00-5<br>REACH-no: 01-2119457610-43-xxxx | ( 50 $\leq$ C < 100) Eye Irrit. 2, H319 |

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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 | : Rinse skin with water/shower. Take off immediately all contaminated clothing.   |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Immediately call a POISON CENTER/doctor. 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. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

- |  |  |
|--|--|
| Fire hazard                                      | : Flammable liquid and vapour.                                       |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon oxides (CO, CO <sub>2</sub> ). |

#### 5.3. Advice for firefighters

- |                                       |  |
|---------------------------------------|--|
| Firefighting instructions             | : Exercise caution when fighting any chemical fire.  |
| Protective equipment for firefighters | : 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

##### 6.1.1. For non-emergency personnel

- |                      |   |
|----------------------|---|
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. |
|----------------------|---|

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

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- |                         |  |
|-------------------------|--|
| Methods for cleaning up | : Take up liquid spill into absorbent material. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Notify authorities if product enters sewers or public waters. |
| Other information       | : Dispose of materials or solid residues at an authorized site.  |

#### 6.4. Reference to other sections

For further information refer to section 13.

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.
- 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

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Keep container closed when not in use. Keep out of direct sunlight. Store in a well-ventilated place. Keep cool. Keep container tightly closed.
- Heat and ignition sources : Store away from direct sunlight or other heat sources.

#### 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

| ethanol; ethyl alcohol (64-17-5)                      |  |
|---|--|
| Ireland - Occupational Exposure Limits                |  |
| Local name  | Ethanol [Ethyl alcohol]  |
| OEL TWA [1]   | 1900 mg/m <sup>3</sup>   |
| OEL TWA [2]   | 1000 ppm   |
| OEL STEL [ppm]  | 1000 ppm   |
| Regulatory reference                                  | Chemical Agents Code of Practice 2021  |
| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) |  |
| Ireland - Occupational Exposure Limits                |  |
| Local name  | Isopropyl alcohol [Propan-2-ol]  |
| OEL TWA [2]   | 200 ppm  |
| OEL STEL [ppm]  | 400 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)          |
| Regulatory reference                                  | Chemical Agents Code of Practice 2021  |
| Ireland - Biological limit values                     |  |
| Local name  | 2-Propanol   |
| BLV   | 40 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B (Background), Ns (Non-specific) |
| Regulatory reference                                  | Biological Monitoring Guidelines (HSA, 2011)   |

##### 8.1.2. Recommended monitoring procedures

No additional information available

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

| <b>ethanol; ethyl alcohol (64-17-5)</b>                      |                          |
|--|--------------------------|
| <b>DNEL/DMEL (Workers)</b>                                   |                          |
| Acute - local effects, inhalation                            | 1900 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal                         | 343 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation                     | 950 mg/m <sup>3</sup>    |
| <b>DNEL/DMEL (General population)</b>                        |                          |
| Acute - local effects, inhalation                            | 950 mg/m <sup>3</sup>    |
| Long-term - systemic effects, oral                           | 87 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation                     | 114 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal                         | 206 mg/kg bodyweight/day |
| <b>PNEC (Water)</b>  |                          |
| PNEC aqua (freshwater)                                       | 0.96 mg/l                |
| PNEC aqua (marine water)                                     | 0.79 mg/l                |
| PNEC aqua (intermittent, freshwater)                         | 2.75 mg/l                |
| <b>PNEC (Sediment)</b>                                       |                          |
| PNEC sediment (freshwater)                                   | 3.6 mg/kg dwt            |
| PNEC sediment (marine water)                                 | 2.9 mg/kg dwt            |
| <b>PNEC (Soil)</b>   |                          |
| PNEC soil  | 0.63 mg/kg dwt           |
| <b>PNEC (Oral)</b>   |                          |
| PNEC oral (secondary poisoning)                              | 0.72 g/kg food           |
| <b>PNEC (STP)</b>  |                          |
| PNEC sewage treatment plant                                  | 580 mg/l                 |
| <b>citric acid (77-92-9)</b>                                 |                          |
| <b>PNEC (Water)</b>  |                          |
| PNEC aqua (freshwater)                                       | 0.44 mg/l                |
| PNEC aqua (marine water)                                     | 0.044 mg/l               |
| <b>PNEC (Sediment)</b>                                       |                          |
| PNEC sediment (freshwater)                                   | 34.6 mg/kg dwt           |
| PNEC sediment (marine water)                                 | 3.46 mg/kg dwt           |
| <b>PNEC (Soil)</b>   |                          |
| PNEC soil  | 33.1 mg/kg dwt           |
| <b>PNEC (STP)</b>  |                          |
| PNEC sewage treatment plant                                  | 1000 mg/l                |
| <b>propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)</b> |                          |
| <b>DNEL/DMEL (Workers)</b>                                   |                          |
| Long-term - systemic effects, dermal                         | 888 mg/kg bodyweight/day |

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) |                          |
|---|--------------------------|
| Long-term - systemic effects, inhalation              | 500 mg/m <sup>3</sup>    |
| <b>DNEL/DMEL (General population)</b>                 |                          |
| Long-term - systemic effects, oral                    | 26 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation              | 89 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal                  | 319 mg/kg bodyweight/day |
| <b>PNEC (Water)</b>                                   |                          |
| PNEC aqua (freshwater)                                | 140.9 mg/l               |
| PNEC aqua (marine water)                              | 140.9 mg/l               |
| PNEC aqua (intermittent, freshwater)                  | 140.9 mg/l               |
| <b>PNEC (Sediment)</b>                                |                          |
| PNEC sediment (freshwater)                            | 552 mg/kg dwt            |
| PNEC sediment (marine water)                          | 552 mg/kg dwt            |
| <b>PNEC (Soil)</b>                                    |                          |
| PNEC soil   | 28 mg/kg dwt             |
| <b>PNEC (Oral)</b>                                    |                          |
| PNEC oral (secondary poisoning)                       | 160 mg/kg food           |
| <b>PNEC (STP)</b>                                     |                          |
| PNEC sewage treatment plant                           | 2251 mg/l                |

### 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.

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



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses. EN 166

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Not required for normal conditions of use

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment (EN 136/140/145)

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. 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  | : light blue.               |
| Appearance                                      | : Clear.                    |
| Odour   | : Not available             |
| Odour threshold                                 | : Not determined            |
| Melting point                                   | : < 0 °C                    |
| Freezing point                                  | : Not available             |
| Boiling point                                   | : ≈ 100 °C                  |
| Flammability                                    | : Not applicable            |
| Explosive properties                            | : Product is not explosive. |
| Oxidising properties                            | : Non oxidizing.            |
| Explosive limits                                | : Not available             |
| Lower explosion limit                           | : Not available             |
| Upper explosion limit                           | : Not available             |
| Flash point                                     | : 30 °C                     |
| Auto-ignition temperature                       | : Not determined            |
| Decomposition temperature                       | : Not determined            |
| pH  | : 2 – 2.5                   |
| Viscosity, kinematic                            | : Not determined            |
| Solubility                                      | : Soluble in water.         |
| Partition coefficient n-octanol/water (Log Kow) | : Not determined            |
| Vapour pressure                                 | : Not determined            |
| Vapour pressure at 50 °C                        | : Not determined            |
| Density   | : 1.02 g/ml                 |
| Relative density                                | : Not available             |
| Relative vapour density at 20 °C                | : Not determined            |
| Relative gas density                            | : Not determined            |
| 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

None under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

None known.

### 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  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### ethanol; ethyl alcohol (64-17-5)

|               |              |
|---------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
|---------------|--------------|

#### citric acid (77-92-9)

|                 |                       |
|-----------------|-----------------------|
| LD50 oral rat   | 5400 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg          |
| ATE CLP (oral)  | 5400 mg/kg bodyweight |

#### Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)

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

#### Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated (501019-90-5)

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

#### propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

|                |                       |
|----------------|-----------------------|
| LD50 oral rat  | 5840 mg/kg            |
| ATE CLP (oral) | 5840 mg/kg bodyweight |

Skin corrosion/irritation : Not classified  
pH: 2 – 2.5  
Serious eye damage/irritation : Causes serious eye irritation.  
pH: 2 – 2.5  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified

#### citric acid (77-92-9)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

#### propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified



# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### RINSE AID C12

|                      |                |
|----------------------|----------------|
| Viscosity, kinematic | Not determined |
|----------------------|----------------|

### 11.2. Information on other hazards

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

Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### ethanol; ethyl alcohol (64-17-5)

|                 |           |
|-----------------|-----------|
| LC50 - Fish [1] | 13 g/l    |
| NOEC (chronic)  | > 10 mg/l |

#### citric acid (77-92-9)

|                      |                                       |
|----------------------|---------------------------------------|
| LC50 - Fish [1]      | 440 mg/l (Exposure time: 48 h)        |
| EC50 - Crustacea [1] | 1535 mg/l (24h) (Daphnia magna; 24 h) |

#### Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)

|                      |               |
|----------------------|---------------|
| LC50 - Fish [1]      | 1 – 10 mg/l   |
| EC50 - Crustacea [1] | 10 – 100 mg/l |

#### Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated (501019-90-5)

|                      |               |
|----------------------|---------------|
| LC50 - Fish [1]      | 1 – 10 mg/l   |
| EC50 - Crustacea [1] | 1 – 10 mg/l   |
| EC50 72h - Algae [1] | 10 – 100 mg/l |

#### propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

|                 |           |
|-----------------|-----------|
| LC50 - Fish [2] | 9640 mg/l |
|-----------------|-----------|

### 12.2. Persistence and degradability

#### ethanol; ethyl alcohol (64-17-5)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

#### citric acid (77-92-9)

|                |                |
|----------------|----------------|
| Biodegradation | 97 % (28 days) |
|----------------|----------------|

#### Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation                | > 60 % 28 d            |

#### Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated (501019-90-5)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Persistence and degradability      Biodegradable.

### 12.3. Bioaccumulative potential

#### RINSE AID C12

Partition coefficient n-octanol/water (Log Kow)      Not determined

### citric acid (77-92-9)

Partition coefficient n-octanol/water (Log Pow)      -0.2 – -1.8

### Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)

Bioaccumulative potential      No bioaccumulation.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### RINSE AID C12

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

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods      : Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information      : Flammable vapours may accumulate in the container.

## 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 1987  | UN 1987   | UN 1987   | UN 1987   | UN 1987   |
| <b>14.2. UN proper shipping name</b>                           |   |   |   |   |
| ALCOHOLS, N.O.S.   | ALCOHOLS, N.O.S.  | Alcohols, n.o.s.  | ALCOHOLS, N.O.S.  | ALCOHOLS, N.O.S.  |
| <b>Transport document description</b>                          |   |   |   |   |
| UN 1987 ALCOHOLS, N.O.S. (Ethanol; propan-2-ol), 3, III, (D/E) | UN 1987 ALCOHOLS, N.O.S. (Ethanol; propan-2-ol), 3, III | UN 1987 Alcohols, n.o.s. (Ethanol; propan-2-ol), 3, III | UN 1987 ALCOHOLS, N.O.S. (Ethanol; propan-2-ol), 3, III | UN 1987 ALCOHOLS, N.O.S. (Ethanol; propan-2-ol), 3, III |
| <b>14.3. Transport hazard class(es)</b>                        |   |   |   |   |
| 3  | 3   | 3   | 3   | 3   |

# RINSE AID C12


## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| ADR   | IMDG  | IATA  | ADN   | RID   |
|---|---|---|---|---|
|  |  |  |  |  |
| <b>14.4. Packing group</b>  |   |   |   |   |
| III   | III   | III   | III   | III   |
| <b>14.5. Environmental hazards</b>  |   |   |   |   |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No                         | Dangerous for the environment: No   | Dangerous for the environment: No   | Dangerous for the environment: No   |
| No supplementary information available  |   |   |   |   |

### 14.6. Special precautions for user

#### Overland transport

|   |   |
|---|---|
| Classification code (ADR)                                 | : F1  |
| Special provisions (ADR)                                  | : 274, 601  |
| 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)       | : T4  |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29   |
| Tank code (ADR)   | : LGBF  |
| Vehicle for tank carriage                                 | : FL  |
| Transport category (ADR)                                  | : 3   |
| Special provisions for carriage - Packages (ADR)          | : V12   |
| Special provisions for carriage - Operation (ADR)         | : S2  |
| Hazard identification number (Kemler No.)                 | : 30  |
| Orange plates   | :  |
| Tunnel restriction code (ADR)                             | : D/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)        | : T4         |
| Tank special provisions (IMDG)  | : TP1, TP29  |
| EmS-No. (Fire)                  | : F-E        |
| EmS-No. (Spillage)              | : S-D        |
| Stowage category (IMDG)         | : A          |

#### Air transport

|  |            |
|--|------------|
| PCA Excepted quantities (IATA)               | : E1       |
| PCA Limited quantities (IATA)                | : Y344     |
| PCA limited quantity max net quantity (IATA) | : 10L      |
| PCA packing instructions (IATA)              | : 355      |
| PCA max net quantity (IATA)                  | : 60L      |
| CAO packing instructions (IATA)              | : 366      |
| CAO max net quantity (IATA)                  | : 220L     |
| Special provisions (IATA)                    | : A3, A180 |

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

ERG code (IATA) : 3L

### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 274, 601  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 274, 601  
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) : T4  
Portable tank and bulk container special provisions (RID) : TP1, TP29  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12  
Colis express (express parcels) (RID) : CE4  
Hazard identification number (RID) : 30

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

| EU restriction list (REACH Annex XVII) |   |
|--|---|
| Reference code                         | Applicable on   |
| 3(a)                                   | RINSE AID C12 ; propan-2-ol; isopropyl alcohol; isopropanol ; ethanol; ethyl alcohol  |
| 3(b)                                   | RINSE AID C12 ; propan-2-ol; isopropyl alcohol; isopropanol ; ethanol; ethyl alcohol ; Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated |
| 3(c)                                   | Alcohols, C12-14, ethoxylated propoxylated ; Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated   |
| 40.                                    | propan-2-ol; isopropyl alcohol; isopropanol ; ethanol; ethyl alcohol  |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

CESIO recommendations : 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.

Other information, restriction and prohibition regulations : Compliance with following regulations: Detergent Regulation (648/2004/EC).

### Directive 2012/18/EU (SEVESO III)

Seveso Additional information : P5a  
P5b  
P5c

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 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

**For the following substances of this mixture a chemical safety assessment has been carried out:**

citric acid

## 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   |
| EC50   | Effective concentration for 50 percent of test population (median effective concentration)      |
| EN     | European Standard   |
| IARC   | International Agency for Research on Cancer   |
| IATA   | International Air Transport Association   |
| IMDG   | International Maritime Dangerous Goods  |
| LC50   | Lethal concentration for 50 percent of test population (median lethal concentration)            |
| LD50   | Lethal dose for 50 percent of test population (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   |

# RINSE AID C12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| PBT                         | Persistent Bioaccumulative Toxic  |
| PNEC                        | Predicted No-Effect Concentration   |
| RID                         | Regulation concerning the International Carriage of Dangerous Goods by Railways |
| 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   |

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3                          |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2  |
| Flam. Liq. 2                        | Flammable liquids, Category 2  |
| H225                                | Highly flammable liquid and vapour.  |
| H226                                | Flammable liquid and vapour.   |
| H319                                | Causes serious eye irritation.   |
| H335                                | May cause respiratory irritation.  |
| H336                                | May cause drowsiness or dizziness.   |
| H412                                | Harmful to aquatic life with long lasting effects.   |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |      |                       |
|---|------|-----------------------|
| Flam. Liq. 3  | H226 | On basis of test data |
| Eye Irrit. 2  | H319 | Calculation method    |

Safety Data Sheet (SDS), EU

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.