Refresher Towelettes
Safety Data Sheet


MS Code: MSTR061-AUS  Revision: 4  Rev Date: 11/22/2019  Supersedes: 12/01/2017

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

1.1. Product identifier
Product form: Towelette, mixture
Product name: Refresher Towelette
Product group: Trade product
Product code: LB-3843/2
Part number: RT-7810

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Use of the substance/preparation: Hand cleaning

1.2.2. Uses advised against
No data available

Distributor: Aviall Australia Pty. Ltd.
20-22 Lindaway Place
Tullamarine
Phone: 61-3-9339-3000
Fax: 61-3-9338-9773
Tel +44 (0) 1189 637930
E-mail: melbourne@aviall.com

Manufacturer: Celeste Industries Corporation
8221 Teal Drive, Suite 405
Easton, Maryland 21601 (USA)
Within USA: (410) 822-5775
International: 00 (1) 410-822-5775
e-mail: info@celestecorp.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to CLP Regulation (EC) No 1272/2008
Not classified as hazardous

Adverse physicochemical, human health and environmental effects
Not classified as dangerous for use/supply

2.2. Label elements
Classification according to CLP Regulation (EC) No 1272/2008
No marking required

2.3. Other hazards
Not classified

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>(CAS No.) 64-17-5</td>
<td>15 - 23</td>
<td>Flam. Liq. 2, H225 (EC no) 200-578-6 (EC index no) 603-002-00-5</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures after inhalation: Unlikely route of exposure
### First-aid measures after skin contact
- Not known to cause irritation, but if skin irritation does occur, rinse well with water.
- **Symptoms/injuries after skin contact:** Intended for hand use without causing irritation.
- **Symptoms/injuries after eye contact:** May cause irritation to the eyes.

### First-aid measures after ingestion
- Seek medical attention immediately. If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Do not induce vomiting.
- **Symptoms/injuries after ingestion:**

### Most important symptoms and effects, both acute and delayed
- Treat symptomatically.

### Firefighting measures

#### 5.1. Extinguishing media
- **Suitable extinguishing media:** Water.
- **Unsuitable extinguishing media:** None known.

#### 5.2. Special hazards arising from the substance or mixture
- **Fire hazard:** Non-flammable liquid, according to Annex VI of Directive 67/548/EEC, a mixture having a flash point greater than 21°C and less than 55°C need not be classified as flammable if the mixture could not in any way support combustion.
- **Reactivity:** Stable under normal conditions of use.

#### 5.3. Advice for firefighters
- **Protective equipment for firefighters:** Wear proper protective equipment. Extra personal protection: complete protective clothing.

### Accidental release measures

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

##### 6.1.1. For non-emergency personnel
- **Protective equipment:** Chemical resistant gloves as needed. Use splash goggles to prevent eye contact as needed.
- **Emergency procedures:** Avoid contact with eyes. No special emergency procedures.

##### 6.1.2. For emergency responders
- **Protective equipment:** Chemical resistant gloves. Use splash goggles when eye contact due to splashing is possible.
- **Emergency procedures:** Eliminate leaks immediately. Clean spills promptly. Material spilled on hard surface can present a serious slipping/falling hazard.

#### 6.2. Environmental precautions
- No special requirements.

#### 6.3. Methods and material for containment and cleaning up
- **Methods for cleaning up:** Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, dike with dirt, then remove by vacuum truck for disposal.

#### 6.4. Reference to other sections
- Refer to sections 8 and 13.

### Handling and storage

#### 7.1. Precautions for safe handling
- **Precautions for safe handling:** Avoid contact with eyes.
- **Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities
- **Technical measures:** Provide adequate ventilation.
- **Storage condition(s):** Avoid freezing during storage.

#### 7.3. Specific end use(s)
- No data available

### Exposure controls/personal protection

#### 8.1. Control parameters

<table>
<thead>
<tr>
<th>Country</th>
<th>MAK (mg/m³)</th>
<th>MAK (ppm)</th>
<th>MAK Short time value (mg/m³)</th>
<th>MAK Short time value (ppm)</th>
<th>Limit value (mg/m³)</th>
<th>Limit value (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>1900 mg/m³</td>
<td>1000 ppm</td>
<td>3800 mg/m³</td>
<td>2000 ppm</td>
<td>1907 mg/m³</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Belgium</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country</td>
<td>Regulation</td>
<td>Exposure Limit Value (mg/m³)</td>
<td>Exposure Limit Value (ppm)</td>
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<td>------------------------------</td>
<td>-----------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>France</td>
<td>VLE</td>
<td>9500 mg/m³</td>
<td>5000 ppm</td>
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<tr>
<td>France</td>
<td>VME</td>
<td>1900 mg/m³</td>
<td>1000 ppm</td>
<td></td>
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<td></td>
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<tr>
<td>Germany</td>
<td>TRGS 900</td>
<td>Occupational exposure limit value</td>
<td>960 mg/m³</td>
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<tr>
<td>Italy</td>
<td>ACGIH TWA</td>
<td>1884 mg/m³</td>
<td>1000 ppm</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>USA</td>
<td>NIOSH REL</td>
<td>(mg/m³)</td>
<td>(ppm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA</td>
<td>OSHA PEL</td>
<td>(mg/m³)</td>
<td>(ppm)</td>
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<tr>
<td>Spain</td>
<td>VLA-ED</td>
<td>1910 mg/m³</td>
<td>1000 ppm</td>
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<tr>
<td>Switzerland</td>
<td>VLE</td>
<td>1920 mg/m³</td>
<td>1000 ppm</td>
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<td></td>
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<tr>
<td>Switzerland</td>
<td>VME</td>
<td>960 mg/m³</td>
<td>500 ppm</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>United Kingdom</td>
<td>WEL TWA</td>
<td>1920 mg/m³</td>
<td>1000 ppm</td>
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<tr>
<td>Czech Republic</td>
<td>Expoziční limity (PEL)</td>
<td>1000 mg/m³</td>
<td>530 ppm</td>
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<tr>
<td>Czech Republic</td>
<td>Expoziční limity (NPK-P)</td>
<td>3000 mg/m³</td>
<td>1590 ppm</td>
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<tr>
<td>Denmark</td>
<td>Grenseværdie (langvarig)</td>
<td>1900 mg/m³</td>
<td>1000 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Denmark</td>
<td>Grenseværdie (kortvarig)</td>
<td>3800 mg/m³</td>
<td>2000 ppm</td>
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<td></td>
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<tr>
<td>Finland</td>
<td>HTP-arvo (8h)</td>
<td>1900 mg/m³</td>
<td>1000 ppm</td>
<td></td>
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<tr>
<td>Finland</td>
<td>HTP-arvo (15 min)</td>
<td>2500 mg/m³</td>
<td>1300 ppm</td>
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<tr>
<td>Hungary</td>
<td>AK-érték</td>
<td>1900 mg/m³</td>
<td>7600 mg/m³</td>
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<td></td>
<td></td>
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<tr>
<td>Ireland</td>
<td>OEL (8 hours ref)</td>
<td>1900 mg/m³</td>
<td>1000 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lithuania</td>
<td>IPRV</td>
<td>1000 mg/m³</td>
<td>500 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norway</td>
<td>Gjennomsnittsverdier (AN)</td>
<td>950 mg/m³</td>
<td>500 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poland</td>
<td>NDS</td>
<td>1900 mg/m³</td>
<td>1000 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slovakia</td>
<td>NPHV (priemerná)</td>
<td>960 mg/m³</td>
<td>500 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slovakia</td>
<td>Upozornenie (SK)</td>
<td>krátkodobý kategória II.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada (Quebec)</td>
<td>VEMP (mg/m³)</td>
<td>1880 mg/m³</td>
<td>1000 ppm</td>
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<td></td>
<td></td>
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<tr>
<td>Australia</td>
<td>TWA (mg/m³)</td>
<td>1920 mg/m³</td>
<td>1000 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8.2. Exposure controls

<table>
<thead>
<tr>
<th>Appropriate engineering controls</th>
<th>Ensure adequate ventilation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal protective equipment</td>
<td>Not required if used as intended.</td>
</tr>
</tbody>
</table>

- **Hand protection**: Not required.
- **Eye protection**: Normally not required.
- **Skin and body protection**: Normally not required.
- **Respiratory protection**: Normally not required.

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

- **Physical state**: Saturated towellete
- **Appearance**: Thin liquid
- **Colour**: Clear
- **Odour**: Pleasant scent
- **Odour threshold**: No data available
- **pH**: No data available
- **Relative evaporation rate (butylacetate=1)**: No data available
- **Melting point**: No data available
- **Freezing point**: 32 F
- **Boiling point**: No data available
- **Flash point**: 36.1 °C
- **Self ignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: No data available
- **Vapour pressure**: No data available
- **Relative vapour density at 20 °C**: 2.07
- **Relative density**: 0.95
- **Solubility**: No data available
- **Log Pow**: No data available
- **Log Kow**: No data available
- **Viscosity, kinematic**: No data available
- **Viscosity, dynamic**: No data available
- **Explosive properties**: No data available
- **Explosive limits**: No data available

9.2. Other information

No data available

**SECTION 10: Stability and reactivity**

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

None known.

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

- **Acute toxicity**: Not classified
- **Ethanol (64-17-5) – LD50 oral rat**: 10470 mg/kg
- **Skin corrosion/irritation**: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity: Not classified
Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ethanol (64-17-5)

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes</td>
<td>&gt; 14200 mg/l 96 hours</td>
</tr>
<tr>
<td>LC50 other aquatic organisms</td>
<td>5012 mg/l 48 hours- daphnia</td>
</tr>
<tr>
<td>EC50 Daphnia</td>
<td>454 mg/l</td>
</tr>
<tr>
<td>NOEC (acute)</td>
<td>9.6 mg/l Daphnia magna</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>275 mg/l</td>
</tr>
<tr>
<td>ErC50 (other aquatic plants)</td>
<td>4432 mg/l</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment

Lime Refresher Towel Solution
This substance/mixture does not meet the PBT criteria of REACH, annex XIII.
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects
Not applicable

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Regional legislation (waste): Dispose of contents/container to comply with applicable local, national and international regulations.
Waste disposal recommendations: Comply with local regulations for disposal.

SECTION 14: Transport information
Not classified as dangerous for transport.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
Contains no REACH candidate substance

15.1.2. National regulations
No data available

15.2. Chemical safety assessment
CSA has not been established

SECTION 16: Other information
Sources of Key data: SDS, ECHA
Abbreviations and acronyms:

- ACGIH (American Conference of Government Industrial Hygienists)
- ASTM - American Society for Testing and Materials
- CAS - Chemical Abstracts Service
- CLP - Classification, Labelling and Packaging
- CSR - Chemical Safety Report
- EEC - European Economic Community
- EC - European Community
- GHS - Globally Harmonised System
- HMIS - Hazardous Materials Identification System
- MSDS - Material Safety Data Sheet
- OSHA - Occupational Safety and Health Administration
- Overland transport (ADR)
- PEL - Permissible Exposure Level
- REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
- relat - Relative
- SDS - Safety Data Sheet
- STEL - Short-Term Exposure Limit
- TLV - Threshold Limit Value
- TWA - Time Weighted Average

Full text of R-, H- and EUH-phrases:

<table>
<thead>
<tr>
<th>Flammable liquids</th>
<th>Full text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 2</td>
<td>Flam. Liq. 2</td>
</tr>
<tr>
<td>Category 3</td>
<td>Flam. Liq. 3</td>
</tr>
<tr>
<td>Highly flammable liquid and vapour</td>
<td>H225</td>
</tr>
<tr>
<td>Flammable liquid and vapour</td>
<td>H226</td>
</tr>
<tr>
<td>Highly flammable</td>
<td>R11</td>
</tr>
</tbody>
</table>

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