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

1.1. Product identifier

Product form: Wipe, mixture
Product name: Aerospace Lens Wipe
Product group: Trade product
Product code: LB-CLC/A
Part number: TR-LC/A series

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: Surface cleaning

1.2.2. Uses advised against

No data available

1.4. Emergency telephone number

Emergency contact number: For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident call CHEMTREC (24 hours) within USA and CANADA: 1-800-424-9300
Outside USA and Canada (collect call accepted): 1-703-527-3883

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to CLP Regulation (EC) No 1272/2008
Eye Irrit. 2, H319

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
Hazard Pictogram: !
Signal Word: Warning
Hazard Statement: H319 – Causes serious eye irritation
P305+P351+P338 – IF IN EYES: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337+P313 – If eye irritation persists, seek medical attention.

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>10 - 12</td>
<td>Flam. Liq. 2, H225 Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>(EC no) 200-578-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(EC index no) 603-002-00-5</td>
<td></td>
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<td></td>
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</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.
First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes.
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.

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

Symptoms/injuries after skin contact: Intended for hand use without causing irritation.
Symptoms/injuries after eye contact: May cause irritation to the eyes.

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.
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, 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.

SECTION 6: 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.

SECTION 7: 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

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<table>
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<tr>
<th>Ethanol (64-17-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Austria</strong></td>
<td></td>
</tr>
<tr>
<td>MAK (mg/m³)</td>
<td>1900 mg/m³</td>
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<tr>
<td>MAK (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Austria</td>
<td></td>
</tr>
<tr>
<td>MAK Short time value (mg/m³)</td>
<td>3800 mg/m³</td>
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<tr>
<td>MAK Short time value (ppm)</td>
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<tr>
<td><strong>Belgium</strong></td>
<td></td>
</tr>
<tr>
<td>Limit value (mg/m³)</td>
<td>1907 mg/m³</td>
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<td>Limit value (ppm)</td>
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<tr>
<td><strong>France</strong></td>
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<td>VLE (mg/m³)</td>
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<td>TRGS 900 Occupational exposure limit value (ppm)</td>
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<td>ACGIH TWA (mg/m³)</td>
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</tr>
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</tr>
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<tr>
<td><strong>USA</strong> OSHA</td>
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<tr>
<td>VLA-ED (mg/m³)</td>
<td>1910 mg/m³</td>
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<tr>
<td>VLA-ED (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td><strong>Switzerland</strong></td>
<td></td>
</tr>
<tr>
<td>VLE (mg/m³)</td>
<td>1920 mg/m³</td>
</tr>
<tr>
<td>VLE (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td><strong>United Kingdom</strong></td>
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</tr>
<tr>
<td>WEL TWA (mg/m³)</td>
<td>1920 mg/m³</td>
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<tr>
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<td>Expoziční limity (PEL) (mg/m³)</td>
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<tr>
<td><strong>Danmark</strong></td>
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</tr>
<tr>
<td>Grænseværdie (langvarig) (mg/m³)</td>
<td>1900 mg/m³</td>
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<tr>
<td>HTP-arvo (8h) (mg/m³)</td>
<td>1900 mg/m³</td>
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<td>HTP-arvo (8h) (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td><strong>Hungary</strong></td>
<td></td>
</tr>
<tr>
<td>AK-érték</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td><strong>Ireland</strong></td>
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</tr>
<tr>
<td>OEL (8 hours ref) (mg/m³)</td>
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<tr>
<td><strong>Lithuania</strong></td>
<td></td>
</tr>
<tr>
<td>IPRV (mg/m³)</td>
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<tr>
<td>IPRV (ppm)</td>
<td>500 ppm</td>
</tr>
<tr>
<td><strong>Lithuania</strong></td>
<td></td>
</tr>
<tr>
<td>TPRV (mg/m³)</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td>TPRV (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td><strong>Lithuania</strong></td>
<td></td>
</tr>
<tr>
<td>NRV (mg/m³)</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td>NRV (ppm)</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>
Ethanol (64-17-5)

<table>
<thead>
<tr>
<th>Country</th>
<th>Standard (mg/m³)</th>
<th>Standard (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Norway</td>
<td>Gjennomsnittsverdier (AN)</td>
<td>950 mg/m³</td>
</tr>
<tr>
<td>Poland</td>
<td>NDS (mg/m³)</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td>Slovakia</td>
<td>NPHV (priemerná) (mg/m³)</td>
<td>960 mg/m³</td>
</tr>
<tr>
<td>Slovakia</td>
<td>NPHV (priemerná) (ppm)</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Canada (Quebec)</td>
<td>VEMP (mg/m³)</td>
<td>1880 mg/m³</td>
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<tr>
<td>Canada (Quebec)</td>
<td>VEMP (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Australia</td>
<td>TWA (mg/m³)</td>
<td>1920 mg/m³</td>
</tr>
<tr>
<td>Australia</td>
<td>TWA (ppm)</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Ensure adequate ventilation.
Personal protective equipment: Not required if used as intended.

Hand protection: Not required
Eye protection: Normally not required due to packaging.
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
Oxidising 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (64-17-5)</td>
<td>LC50 fishes</td>
<td>&gt; 14200 mg/l 96 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 other aquatic organisms</td>
<td>5012 mg/l 48 hours- daphnia</td>
</tr>
<tr>
<td></td>
<td>EC50 Daphnia</td>
<td>454 mg/l</td>
</tr>
<tr>
<td></td>
<td>NOEC (acute)</td>
<td>9.6 mg/l Daphnia magna</td>
</tr>
<tr>
<td></td>
<td>ErC50 (algae)</td>
<td>275 mg/l</td>
</tr>
<tr>
<td></td>
<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
Other regulations, restrictions and prohibition regulations:

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:

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

- Flammable liquids Category 2
- Flammable liquids Category 3
- Highly flammable liquid and vapour
- Flammable liquid and vapour
- Highly flammable

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