SAFETY DATA SHEET

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

1.1. Product identifier
Product name : SP Lens Cleaner

Use of the substance/mixture : Glass or Lens Cleaner

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Glass or Lens Cleaner

1.3. Details of the supplier of the safety data sheet
Cardinal Health
7000 Cardinal Place
Dublin, Ohio 43017
877.CARDINAL (877.227.3462)

1.4. Emergency telephone number
CHEMTREC 800.424.9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (GHS-US)
Flam. Liq. 3 H226 Eye
Irrit. 2A H319
STOT SE 3 H336

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US) : 

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H226 - Flammable liquid and vapor
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
Precautionary statements (GHS-US):

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P233 - Keep container tightly closed
- P240 - Ground/bond container and receiving equipment
- P241 - Use explosion-proof electrical/ventilating/lighting/equipment
- P242 - Use only non-sparking tools
- P243 - Take precautionary measures against static discharge
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 - Wash ... thoroughly after handling
- P271 - Use only outdoors or in a well-ventilated area
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P303 + P361 + P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P312 - Call a poison center/docor if you feel unwell
- P337+P313 - If eye irritation persists: Get medical advice/attention
- P370+P378 - In case of fire: Use dry chemical, alcohol foam, CO2 to extinguish
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed
- P403+P235 - Store in a well-ventilated place. Keep cool
- P405 - Store locked up
- P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>Trade Secret</td>
<td>Not classified</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>(CAS No) 67-63-0</td>
<td>Trade Secret</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td>Acetic acid</td>
<td>(CAS No) 64-19-7</td>
<td>Trade Secret</td>
<td>Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: First aid measures

### 4.1. Description of first aid measures

<table>
<thead>
<tr>
<th>First-aid measures after inhalation</th>
<th>After skin contact</th>
<th>After eye contact</th>
<th>After ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove person to fresh air. If not breathing, administer CPR or artificial respiration. Get immediate medical attention.</td>
<td>Wash with soap and water. Seek medical advice if skin irritation develops or persists.</td>
<td>Remove contact lenses immediately. Flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.</td>
<td>Do NOT induce vomiting. Drink plenty of water. Obtain emergency medical attention.</td>
</tr>
</tbody>
</table>

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: Frequent or prolonged contact may irritate the skin.
SAFETY DATA SHEET

Issuing date: 3/16/15  Revision date:  
Revision number: 

Symptoms/injuries after eye contact: Causes serious eye irritation. Symptoms/injuries after ingestion: May be harmful if swallowed.

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: Alcohol foam, carbon dioxide, dry chemical. Unsuitable extinguishing media: Water may be ineffective.

Fire hazard: Flammable liquid and vapor.
Explosion hazard: Vapors may travel long distances along ground before igniting/flash back to vapor source.

5.3. Advice for firefighters
Protection during firefighting: Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
No additional information available

6.1.2. For emergency responders
No additional information available

6.2. Environmental precautions: Avoid release to the environment.

For containment: Stop the flow of material, if this is without risk.
Methods for cleaning up: Confine spill and soak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations.

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid contact with eyes, skin and clothing.

Storage conditions: Keep away from open flames, hot surfaces and sources of ignition. Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection
### 8.1. Control parameters

<table>
<thead>
<tr>
<th>Compound</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water (7732-18-5)</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Isopropyl alcohol (67-63-0)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acetic acid (64-19-7)</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 8.2. Exposure controls

- **Appropriate engineering controls**: General (mechanical) room ventilation is expected to be satisfactory for normal handling.
- **Hand protection**: None required under normal product handling conditions.
- **Eye protection**: Use splash goggles or face shield when eye contact may occur.
- **Skin and body protection**: Wear suitable working clothes.
- **Respiratory protection**: None required under normal product handling conditions.

### SECTION 9: Physical and chemical properties

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

- **Physical state**: Liquid
- **Color**: Green
- **Odor**: Characteristic
- **Odor threshold**: No data available
- **pH**: No data available
- **Relative evaporation rate (butyl acetate=1)**: No data available
- **Melting point**: No data available
- **Freezing point**: No data available
- **Boiling point**: 82.2 °C (180 °F)
- **Flash point**: 25.6 °C (78 °F)
10.1. Reactivity
No additional information available

10.2. Chemical stability
The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions
Will not occur.

10.4. Conditions to avoid
Heat, flames, and other ignition sources.

10.5. Incompatible materials
Not determined.

10.6. Hazardous decomposition products
Not determined.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified
### SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 oral rat</th>
<th>LD50 dermal rabbit</th>
<th>LC50 inhalation rat (mg/l)</th>
<th>ATE US (oral)</th>
<th>ATE US (dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water (7732-18-5)</strong></td>
<td>&gt; 90 ml/kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Isopropyl alcohol (67-63-0)</strong></td>
<td>1870 mg/kg</td>
<td>4059 mg/kg</td>
<td>72600 mg/m³ (Exposure time: 4 h)</td>
<td>4396.000 mg/kg body weight</td>
<td>12800.000 mg/kg body weight</td>
</tr>
<tr>
<td><strong>Acetic acid (64-19-7)</strong></td>
<td>3310 mg/kg</td>
<td>1060 mg/kg</td>
<td>11.4 mg/l/4h</td>
<td>3310.000 mg/kg</td>
<td>1060.000 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**: Not classified
**Serious eye damage/irritation**: Causes serious eye irritation.
**Respiratory or skin sensitization**: Not classified
**Germ cell mutagenicity**: Not classified
**Carcinogenicity**: Not classified
**Reproductive toxicity**: Not classified
**Specific target organ toxicity (single exposure)**: May cause drowsiness or dizziness.

### Isopropyl alcohol (67-63-0)

**IARC group**: 3 - Not classifiable

**Aspiration hazard**: Not classified

### SECTION 12: Ecological information

12.1. **Toxicity**
12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Isopropyl alcohol (67-63-0)</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>0.05    (at 25 °C)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acetic acid (64-19-7)</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>-0.31   (at 20 °C)</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with DOT
Transport document description: UN1993 Flammable liquids, n.o.s. (Isopropanol), 3, III

UN-No.(DOT): UN1993

DOT Proper Shipping Name: Flammable liquids, n.o.s. (Isopropanol)

Department of Transportation (DOT) Hazard Classes: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT): 3 - Flammable liquid

DOT Symbols: G - Identifies PSN requiring a technical name
SAFETY DATA SHEET

Packing group (DOT)
DOT Special Provisions (49 CFR 172.102)

III - Minor Danger
B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.
B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L
DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

SECTION 15: Regulatory information

15.1. US Federal regulations

Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Isopropyl alcohol (67-63-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)
EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting 1.0 % (only if manufactured by the strong acid process, no supplier notification)

Acetic acid (64-19-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State regulations

Isopropyl alcohol (67-63-0)
Full text of H-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Dermal)</th>
<th>Acute toxicity (dermal) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids Category 3</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapor</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
</tbody>
</table>

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.