# Material Safety Data Sheet

## 1. Identification and General Information

<table>
<thead>
<tr>
<th>P/N#:</th>
<th>0350</th>
<th>NFPA Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nomenclature:</td>
<td>Lens Cleaner</td>
<td>H 1</td>
</tr>
<tr>
<td>Company Name:</td>
<td>Allegro Industries</td>
<td>F 3</td>
</tr>
<tr>
<td>Address:</td>
<td>7221 Orangetree Avenue,</td>
<td>R 0</td>
</tr>
<tr>
<td>Garden Grove, CA 92841</td>
<td>714-899-9855</td>
<td>O None</td>
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</tbody>
</table>

## 2. Composition

| Chemical Name:     | Isopropyl Alcohol         |
| Chemical Family:   | 2-Propanol                |
| Synonyms:          | Dimethyl Carbinol, IPA, Isopropanol, Rubbing alcohol. |
| Molecular Weight:  | 60.1                      |
| Molecular Formula: | C₃H₈O/(CH₃)₂CHOH          |

### Ingredient:

- **CAS Number:** 67-63-0
- **Percent:** 22%

## 3. Hazards Identification

### Physical Dangers:

The vapor mixes well with air. Explosive mixtures are easily formed.

### Chemical Dangers:

React with strong oxidants.

### Routes of Exposure:

The substance can be absorbed into the body by inhalation of its vapor by inhalation of its aerosol and by ingestion.

### Target Organs:

Eyes, nose, throat, central nervous system, blood, respiratory system.

### Health Hazards:

#### Inhalation:

May cause irritation. A harmful contamination of the air can be reached quickly on evaporation at 20°C.

#### Skin Contact:

May cause redness

#### Eye Contact:

May cause irritation

#### Ingestion:

May cause dizziness, incoordination, headache, confusion, coma, abdominal pain, vomiting, diarrhea.

### Chronic Exposure:

Repeated or prolonged contact with skin may cause dermatitis

### Acute Exposure:

The substance irritates the eyes, the skin and the respiratory tract. The substance may cause effects on the central nervous system resulting in depression. Exposure far above the OEL may result in unconsciousness. The effects may be delayed. Medical observation is indicated.

#### Aggravation of Pre-Ex. Cond:

Use of alcoholic beverages enhances the harmful effect.

## 4. First Aid Measures

### Inhalation:

Move to fresh air, give artificial respiration, if needed. Provide oxygen if breathing is difficult. Get immediate treatment by a physician.

### Skin Contact:

Remove contaminated clothes. Wash with soap and water.

### Eye Contact:

Flush eyes with large amounts of water for at least 15 minutes. Get immediate treatment by a physician.

### Ingestion:

DO NOT induce vomiting. Get immediate treatment by a physician.

## 5. Fire Fighting Measures

### Fire Hazards:

Highly flammable. Keep away from open flames, and sparks

### Fire Extinguisher:

Carbon dioxide or powder for small fires. Alcohol resistant foam for large fires, powder.

### Explosion:

Vapor/air mixtures are explosive.

### Flash Point:

11.7°C; 80°F

### Volatile (% by volume):

98%

### Exp. Limits (Vol % in air):

UEL: 9.0%  LEL: 1.2%

### Auto Ignition Temperature:

455°C

### Special Fire Fighting Proc:

Handle as flammable liquid.

### PPE for Fire Fighters:

Respiratory protection required.

### Notes:

None

## 6. Accidental Release Measures

### Procedure for spill/leak:

Absorb with sand and scoop to container for proper disposal. Dispose of surplus as hazardous waste. Evacuate danger area. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or insert absorbent and remove to safe place. Dispose of in accordance with current laws and regulations.

### Waste Disposal:

None

## 7. Handling and Storage

### Storage:

Flame resistant storage cabinet. Store in tight containers in a cool dry place away from light and heat.

### Self Life:

3 Years

### PPE:

Due to small amounts, dispensed to clean glasses, protective equipment is optional. Use protective goggles and gloves if handling in large quantities.

### Notes:

None
8. EXPOSURE CONTROLS

PPE: Due to small amounts, dispensed to clean glasses, protective equipment is optional.
Inhalation: Respiratory protection if handled in large quantities, or adequate ventilation.
Skin: Protective gloves.
Eye: Safety goggles
Ingestion: Do not eat, drink or smoke when handling.
Ventilation: Adequate ventilation when handling.
Engineering Controls: None
Work/Hygienic Practices: Wash hands after use.

Exposure Limits:

Chemical: Isopropyl Alcohol
- TLV (ACGIH TLV) 400ppm
- PEL (OSHA PEL): 400ppm
- STEL: 500ppm

Control Parameter: N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Color/Appearance/Odor: Clear liquid applied to fibrous wipe.
Boiling Point: 183° F; 83° C
Melting Point: -90° C
Specific Gravity (H₂O=1): 0.960
Refractive Index: N/A
Relative Density: 0.79 (water =1) 1.05 (air=1)
Evaporative Rate: N/A
Water Content: N/A
Vapor Density (Air=1): 2.1
Vapor Pressure: 4.4 kPa at 20°C
Solubility in Water: Complete

10. STABILITY AND REACTIVITY

Conditions to avoid: Excessive heat.
Materials to avoid: Separate from strong oxidants, acetaldehyde, chlorine, ethylene oxide, acids, isocyanates.

11. TOXICOLOGICAL INFORMATION

Health effects: N/A
Oral LD50: 5840MG/KG Rat
Dermal LD50: 1900 MG/KG Rat
Human Lethal Dose: 250 ML
Notes: Carcinogenicity Data: There has been an increased incidence of cancer in the manufacture of Isopropyl Alcohol by the strong acid process, involving the formation of Isoproprpyl Oils. It is not clear which substances are responsible.

12. ECOLOGICAL INFORMATION
None Available

13. DISPOSAL CONSIDERATIONS

It is strongly advised not to let the chemical enter into the environment in liquid form.

14. TRANSPORT INFORMATION

Proper shipping name: Wipes, Cleaning
Transport Emergency Card: TEC (R)-544
Packing Group: II
UN Number: 1219
Reportable Quantity: N/A
Notes: N/A

15. REGULATORY INFORMATION

TSCA Registered: No
FDA Approved: Yes
ICSC: 0554
RTECS: NT8050000

16. OTHER INFORMATION
None

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