## MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION AND GENERAL INFORMATION

P/N#: 0350 <u>NFPA Code</u>

Nomenclature: Lens Cleaner H 1
Company Name: Allegro Industries F 3
Address: 7221 Orangewood Avenue R 0
Garden Grove, CA 92841 O None

714-899-9855

Chemtrac: 800-424-9300

2. COMPOSITION

Chemical Name: Isopropyl Alcohol Chemical Family: 2-Propanol

Synonyms: Dimethyl Carbinol, IPA, Isopropanol, Rubbing alcohol.

Molecular Weight: 60.1

Molecular Formula: C<sub>3</sub>H<sub>8</sub>O/(CH<sub>3</sub>)2CHOH

Ingredient: Isopropyl Alcohol

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: Reacts 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 artifical 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 pysician.

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.

PPE for Fire Fighters Respiratory protection require Notes: None

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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.

Waste Disposal: Dispose of in accordance with current laws and regulations.

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

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8. EXPOSURE CONTROLS

PPE: Due to small amounts, dispensed to clean glasses, protective equipment is opitional.

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 IDLH: 2000 ppm PEL (OSHA PEL): 400ppm REL: 400 ppm

STEL 500ppm Control Parameter: N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Color/Appearance/Odor: Clear liquid applied to fibrous wipe.

Boiling Point  $183^{\circ}$  F;  $83^{\circ}$  C Melting Point  $-90^{\circ}$  C Specific Gravity (H<sub>2</sub>O=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/KGRat

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 Isoproprypyl 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 RTECS: NT8050000

FDA Approved: Yes ICSC: 0554

16. OTHER INFORMATION

None

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