Flo-Kem, Inc. Rancho Dominguez, CA 90221 19402 Susana Road Emergency: 800-255-3924

## MATERIAL SAFETY DATA SHEET

**SECTION I. IDENTIFICATION OF PRODUCT** 

GLASS CLEANER CONCENTRATE Name:

MSDS Number: 11/30/2004 Identity: Glass Cleaner 359 Date: Supersedes: 7/26/2004 **TOXICITY:** FIRE: REACTIVITY: PROTECTION: B 1

SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

TLV % Name **CAS Number** PEL 2-Butoxyethanol 111-76-2 25ppm skin 25ppm skin 20 400 mg/ 3 Isopropanol 67-63-0 400 mg/ 3 70

SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point: Melting Point:** Specific Gravity: Vapor Pressure

212° F  $0.835 \pm 0.005$ (mm Hg.): ND ND

**Vapor Density** Water Solubility: pH @ 77°F: **Evaporation** (Air = 1): 1(H2O = 1):1Complete 6.8 - 7.5

VOCgm/L: 752

Appearance and Odor: Clear, blue liquid, Alcohol odor

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (TCC): Flammable Limits: % LEL: % UEL:

88F 12. Isopropanol 7

**Extinguishing Media:** Water fog, foam, carbon dioxide. Cool containers exposed to flames with water from side.

**Special Fire Fighting Procedures:** Prevent breathing vapors. Wear SCBA and protective clothing.

Unusual Fire and Explosion: Will burn. Water may spread burning material.

SECTION V. HEALTH HAZARD DATA

Route(s) of Entry: INHALATION? Yes EYES? Yes SKIN? Yes INGESTION? Yes

(Acute) Health Hazards:

Eyes: May cause irritation or damage Skin: May cause irritation and dryness

Ingestion: May cause stomach upset and irritation of the mouth and throat.

Inhalation: May irritate respiratory tract

(Chronic) Health Hazards: Prolonged or repeated skin contact may cause skin irritation. This product is not listed as or anticipated

to be a potential carcinogen by NTP or OSHA.

Signs and Symptoms of Exposure:

Eyes: Tear production, redness

Skin: May cause irritant reaction on prolonged contact

Ingestion: Nausea & vomiting; loss of consciousness may occur

Inhalation: Occasional mild irritation effects to nose and throat may occur.

Medical Conditions Generally Aggravated by Exposure: Pre-existing contact site disorders.

**Emergency First Aid Procedures:** 

Eyes: Flush eyes with large amounts of water, lifting upper and lower eyelids. If irritation persists, obtain medical attention. Skin:

Wash off with soap and water. Remove contaminated clothing and wash before reuse. If irritation persists, get medical

attention.

Ingestion: Obtain immediate medical attention.

Inhalation: Remove to fresh air. If irritation persists, obtain medical attention

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Carcinogenicity: NTP? No IARC No OSHA REGULATED? No

SECTION VII. REACTIVITY DATA

Stability: Stable Hazardous Polymerization Will Not Occur

Incompatibility (Materials to Avoid): Acids, oxidizing materials

Hazardous Decomposition Byproducts: Oxides of carbon & nitrogen

SECTION VIII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled:

Small Spills: Absorb into neutral medium. Extinguish potential ignition sources.

Large Spills: Same as for small spill. Do not pump unless non-sparking equipment is available

**Disposal:** Meet Federal, State & Local Requirements

**Handling and Storage:** Store in cool, dry well ventilated area. Keep container tightly closed when not in use. **Other Precautions:** Keep out of reach of children. FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY.

**SECTION IX. CONTROL MEASURES** 

Respiratory Protection: NIOSH or MSHA approved air purifying

Ventilation: Normal indoor

Local Exhaust: Recommended if generating mist or vapors

Mechanical (General): Not normally indicated unless mist is generated

Protective Gloves: Rubber, vinyl

**Eye Protection:** Chemical safety goggles

Other Protective Clothing or Equipment: Long pants, sleeves, apron

Work/Hygienic Practices: The recommendations described in this section are provided as general guidance for minimizing

exposure when handling this product. Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the

intended use conditions and equipment.

**SECTION X. DOT INFORMATION** 

ISOPROPANOL SOLUTION, 3, UN1219, PGII

SECTION XI. MISCELLANEOUS INFORMATION

SARA 313: Glycol Ether Category N240

**Notice:** All information, recommendations, and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, manufacturer makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product.

NA - Not Available NE- Not Established ND – Not Determined

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