

MATERIAL SAFETY DATA SHEET

SECTION I. IDENTIFICATION OF PRODUCT

Name: GLASS CLEANER CONCENTRATE

Identity: Glass Cleaner

MSDS Number: 359

Date: 11/30/2004

Supersedes: 7/26/2004

TOXICITY: 1

FIRE: 2

REACTIVITY: 0

PROTECTION: B

SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

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

SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:

212° F

Specific Gravity:

0.835 ± 0.005

Vapor Pressure

(mm Hg.): ND

Melting Point:

ND

Vapor Density

(Air = 1): 1

Evaporation

(H₂O = 1):1

Water Solubility:

Complete

pH @ 77°F:

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):

88F

% LEL:

7

% UEL:

12.

Flammable Limits:

Isopropanol

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

SECTION VI. TOXICITY DATA

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