



SAFETY DATA SHEET

Kleenco, Incorporated
Review Date 15-June 2016
Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name Concentrate Glass Cleaner
Product Code 020-0023

Recommended use of the chemical and restrictions on use
Follow label instructions for proper use.

Details of the supplier of the safety data sheet

Kleenco Products, Incorporated
PO Box 1786
Bellevue, WA 98009
425-883-2976
msds@kleenco.com

Emergency telephone number

Infotrac
1-800-535-5053

2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

OSHA Hazards: Flammable Liquids
Target Organs: NA
Signal Words: Warning

Pictograms:



GHS Classification:

Flammable Liquids	Category 3
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Precautionary Statements:

Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash skin thoroughly after handling.
Wear protective gloves/ eye protection.

Response: IMMEDIATELY CALL A POISON CONTROL CENTER OR PHYSICIAN.

Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion:	IF SWALLOWED: Rinse mouth. Do not induce vomiting.
Specific Treatment:	See Safety Data Section 4: "FIRST AID MEASURES" for additional information.
Storage:	Store in a well ventilated place. Keep cool.
Disposal:	Dispose of contents and container in accordance with local, state and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Hazardous Components (Chemical Name)	Concentration
7732-18-5	Water	60-100%
111-76-2	2-Butoxyethanol	1-5%
67-63-0	Isopropanol	1-10%
67-64-1	Acetone	1-10%

All chemicals above cut off point are listed. Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Skin Contact:	Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center of physician if you feel unwell.
Ingestion:	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, rinse out mouth with water. IMMEDIATELY CALL A POISON CONTROL CENTER OR PHYSICIAN.

5. FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical. Water spray.
Specific hazards arising from the chemical:	Do not allow run-off from fire-fighting to enter drains or water courses.
Hazardous Combustion Products:	May include Carbon monoxide, Carbon dioxide and other toxic gases or vapors. Smoke. Nitrogen oxides (NOx). Sulphur oxides.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods and materials for containment and cleaning up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions:	No smoking. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Keep from freezing. Keep containers upright to prevent leakage. Observe label instructions.
Incompatible Materials:	Keep away from oxidizing agents and strongly acid or alkaline materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
2-Butoxyethanol Cas# 111-76-2	20 ppm	TWA 5 ppm (24mg/m ³) [Skin]	TWA 5 ppm (24mg/m ³) [Skin]
Isopropanol Cas# 67-63-0	200 ppm 492 mg/m ³	400 ppm 980 mg/m ³	400 ppm 1225 mg/m ³
Acetone Cas# 67-64-1	STEL 750 ppm TWA 500 ppm	2400 mg/m ³ TWA	

Engineering Controls:	Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered. Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.
PERSONAL PROTECTIVE EQUIPMENT	
Eye/Face Protection:	Wear splash goggles.
Skin and Body Protection:	Wear rubber or other chemical-resistant gloves. Use of impervious apron, boots and other protective equipment should be considered in order to prevent or minimize contact with the product.
Respiratory Protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.
General Hygiene Considerations:	Wash hands and any exposed skin thoroughly after handling. See 29CFR 1910.132-138 for further guidance

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odor	Characteristic
Odor threshold	No data
Color	Blue
pH	7.0 – 9.0
Melting point/freezing point	No data
Initial boiling point and boiling range	No data
Flash point	Experimental 29.5
Evaporation rate	<1 (Butyl acetate =1)
Flammability	Flammable
Upper/lower flammability or explosive limit	No data
Vapor pressure	No data
Vapor density	No data
Relative density	1.0008
Solubility	Soluble in water
Partition coefficient n-octanol/water	No data
Auto-ignition temperature	No data
Decomposition temperature	No data

10. STABILITY AND REACTIVITY

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Not expected to occur with normal handling and storage.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Incompatible materials:	Oxidizing agents and strongly acid or alkaline materials.
Hazardous decomposition products:	May include Carbon monoxide, Carbon dioxide and other toxic gases or vapors. Smoke. Nitrogen oxides (NOx). Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Eyes, Skin, Ingestion, Inhalation
Symptoms of Exposure	
Eye Contact:	None expected.
Skin Contact:	May cause skin irritation in susceptible persons.
Inhalation:	None expected.
Ingestion:	None expected.
Immediate, Delayed, Chronic Effects	
Product Information:	Data not available or insufficient for classification.
Target Organ Effects:	Eyes. Respiratory system. Skin.
Carcinogenicity:	No components of this product present at levels greater than or equal to 0.1% are listed as probable, possible or confirmed human carcinogen by ACGIH, IARC, NTP, or OSHA.

Chronic Toxicity	Not available.
Teratogenicity	Not available
Mutagenicity	Not available
Embryotoxicity	Not available
Specific Target Organ Toxicity	Not available

Hazardous Component >1% Acute Toxicity Information			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Butoxyethanol Cas# 111-76-2	1300 mg/kg, rat	No data	>4.9 mg/L, 3h, rat
Isopropanol Cas# 67-63-0	5143 mg/kg, mouse	No data	18,286 ppm. 8h,rabbit
Acetone, Cas# 67-64-1	5800 mg/kg, rat	No data	100 mg.m3, rat

12. ECOLOGICAL INFORMATION

Hazardous Component >1% Acute Ecotoxicity Information				
Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
2-Butoxyethanol Cas# 111-76-2	No data	LC 50 220 mg/L, other fish, 96h	No data	No data
Isopropanol Cas# 67-63-0	No data	LC 50 11130 mg/L, pimephales promelas, 96h	No data	No data
Acetone, Cas# 67-64-1	No data	LC 50 6210 mg/L, pimephales promelas, 96h	No data	No data

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of hazardous materials or containers.
Product Containers:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of hazardous materials product container.

14. TRANSPORT INFORMATION

US DOT:	NA1993, Class 3, PGIII, Compound Cleaning Liquid (Containing isopropanol), Flammable liquid. Exceptions: Consumer commodity ORM-D, 173.150.
Special Provisions:	Shipping descriptions may vary based on mode of transport, quantities, package size and/or origin and destination. Limited quantity – Consumer Commodity, ORM-D, DOT-E-173.154. Check with a trained hazardous materials transportation expert for information specific to your situation.

15. REGULATORY INFORMATION

TSCA INVENTORY STATUS	All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.
California Proposition 65	Not listed
SARA 302	Not listed
SARA 313	111-76-2
WHMIS Canada	

SARA 311/312 Hazard	Yes/No
Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

16. OTHER INFORMATION

Revision	Date
Revision 1	06/15/2016

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