

Material Safety Data Sheet

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Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Glass Cleaner
Recommended Use Glass Cleaner - Non-Aerosol.

Supplier Address

KIK International
33 MacIntosh Blvd
Concord
Ontario
L4K 4L5
CA
Phone:1-800-424-9300
Fax:905-660-7333
Contact:Scott Walker
Email:swalker@kikcorp.com
Contact Phone1-479-845-2750

2. HAZARDS IDENTIFICATION

CAUTION!

Emergency Overview

May cause eye irritation

Appearance Blue

Physical State Liquid.

Odor Ammonia

Potential Health Effects

Principle Routes of Exposure Skin contact. Eye contact.

Acute Toxicity

Eyes

May cause irritation.

Skin

No known hazard in contact with skin.

Inhalation

Not an expected route of exposure.

Ingestion

Not an expected route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

No known effect based on information supplied.

Aggravated Medical Conditions

None known.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	7732-18-5	60-100
Butoxyethanol	111-76-2	1 - 5
Surfactants	RR-10426-7	0.1 - 1

Ammonium hydroxide	1336-21-6	0.1 - 1
Propylene glycol monomethyl ether	107-98-2	0.1 - 1
Tetrasodium EDTA	64-02-8	0.1 - 1
Sodium hydroxide	1310-73-2	< 0.1
Dyes, n.o.s.	RR-02861-5	< 0.1

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin Contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Flash Point	250C / 482F
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous Combustion Products	Carbon oxides.
Explosion Data	
Sensitivity to Mechanical Impact	No.
Sensitivity to Static Discharge	No.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards N/A
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with eyes.
Environmental Precautions	Refer to protective measures listed in Sections 7 and 8.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.
Storage	Store in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Propylene glycol monomethyl ether 107-98-2	STEL: 150 ppm TWA: 100 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m ³	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection Skin and Body Protection Respiratory Protection

No special protective equipment required.
No special protective equipment required.
No protective equipment is needed under normal use conditions.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue.	Odor	Ammonia.
Odor Threshold	No information available	Physical State	Liquid
pH	No information available ¹⁰⁻¹²	Autoignition Temperature	No information available
Flash Point	482F / 250C	Boiling Point/Range	No information available
Decomposition Temperature	No information available	Explosion Limits	No information available
Melting Point/Range	No information available	Solubility	No information available
Flammability Limits in Air	No information available	Vapor Pressure	No data available
Water Solubility	Completely soluble	VOC Content (%)	1.25
Evaporation Rate	No information available		
Vapor Density	No data available		
Partition Coefficient: n-octanol/water			

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	None known based on information supplied.
Conditions to Avoid	None known based on information supplied.
Hazardous Decomposition Products	Carbon oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Irritation	May cause eye irritation
LD50 Oral VALUE	100086.9 mg/kg (rat) estimated
LD50 Dermal VALUE	183531 mg/kg (rat) estimated
LC50 Inhalation (DUST) VALUE	
LC50 Inhalation (VAPOR) VALUE	81818.41 ml/m ³ (vapor) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90090 mg/kg (rat)	-	-
Butoxyethanol	470 mg/kg (Rat)	220 mg/kg (Rabbit) 2270 mg/kg (Rat)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
Ammonium hydroxide	= 350 mg/kg (Rat)	-	-
Propylene glycol monomethyl ether	= 5200 mg/kg (Rat)	= 13000 mg/kg (Rabbit)	= 54.6 mg/L (Rat) 4 h > 24 mg/L (Rat) 1 h
Tetrasodium EDTA	= 10 g/kg (Rat)	-	-
Sodium hydroxide	-	= 1350 mg/kg (Rabbit)	-

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Butoxyethanol	A3	Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Target Organ Effects Eyes. Respiratory system. Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Butoxyethanol		LC50: 2950 mg/L (96 h) Lepomis macrochirus LC50: 1490 mg/L (96 h static) Lepomis macrochirus		EC50: 1698 - 1940 mg/L (24 h) Daphnia magna EC50: > 1000 mg/L (48 h) Daphnia magna
Ammonium hydroxide		LC50: 8.2 mg/L (96 h) Pimephales promelas		EC50: 0.66 mg/L (48 h) Daphnia pulex EC50: 0.66 mg/L (48 h) water flea
Propylene glycol monomethyl ether		LC50: 4600-10000 mg/L (96 h static) Leuciscus idus LC50: 20.8 g/L (96 h static) Pimephales promelas		EC50: 23300 mg/L (48 h) Daphnia magna
Tetrasodium EDTA	EC50: 1.01 mg/L (72 h) Desmodesmus subspicatus	LC50: 59.8 mg/L (96 h static) Pimephales promelas LC50: 41 mg/L (96 h static) Lepomis macrochirus		EC50: 610 mg/L (24 h) Daphnia magna
Sodium hydroxide		LC50: 45.4 mg/L (96 h static) Oncorhynchus mykiss		

Chemical Name	Log Pow
Butoxyethanol	0.81
Propylene glycol monomethyl ether	-0.437

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of in accordance with local regulations.

California Hazardous Waste Codes 561

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California EHW	California Carc	California Hazardous Waste	California Waste - Part 2
Ammonium hydroxide			Toxic Corrosive	
Sodium hydroxide			Toxic Corrosive	
Dyes, n.o.s.			Toxic	

14. TRANSPORT INFORMATION

DOT NOT REGULATED

TDG Not regulated

MEX Not regulated

14. TRANSPORT INFORMATION

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Not determined

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Butoxyethanol	111-76-2	1 - 5	1.0
Ammonium hydroxide	1336-21-6	0.1 - 1	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium hydroxide	1000 lb			X
Sodium hydroxide	1000 lb			X

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Butoxyethanol	111-76-2	1 - 5		Group I		
Propylene glycol monomethyl ether	107-98-2	0.1 - 1		Group I		

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ammonium hydroxide	1000 lb	
Sodium hydroxide	1000 lb	

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propylene glycol monomethyl ether	X	X	X		
Butoxyethanol	X	X	X	X	X
Ammonium hydroxide	X	X	X		X

International Regulations

Mexico - Grade

Minimum risk, Grade 0

Chemical Name	Carcinogen Status	Exposure Limits
Butoxyethanol		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m ³ Mexico: STEL 75 ppm Mexico: STEL 360 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

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Revision Note No information available

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet