



Leading
Environmental
Enhancement for
Facilities

An ultra concentrated Ammonia-free, non-streaking, non-smearing, quick drying product that cleans and shines glass, mirrors, sinks, countertops, stainless steel, and other washable surfaces. Can also be used as a light-duty cleaner on all surfaces not harmed by water.



No Streak Glass Cleaner Concentrate

ENVIRONMENTALLY RESPONSIBLE COMPARISON

Traditional Products	LEEF
2-Butoxyethanol	None
Alcohol	None
Ammonium Hydroxide	None
	Acetic Acid
	Sodium Capryl Sulfonate
	Diethylene Glycol Butyl Ether
	Propylene Glycol Butyl Ether*
	VOC: None
pH 10 – 12	pH 4 – 5
Traditional Compound Descriptions:	LEEF Compound Descriptions:
<p>2-Butoxyethanol – an effective water-soluble solvent to attack both water-soluble soils and water-insoluble oils and greases. However, it is a potential nose and eye irritant and may cause blood cell damage if absorbed through skin</p> <p>Alcohol – a water-soluble solvent widely used in glass and window cleaners and is not biodegradable. Highly flammable. It is irritating to skin, eyes and respiratory.</p> <p>Ammonium Hydroxide – a basic cleaning compound commonly used in window cleaners. However, it is extremely irritating to the respiratory tract and eyes.</p>	<p>Acetic Acid - Commonly know as vinegar. A mild acid that removes hard water scales. It is a naturally renewable resource and produced by fermentation of sugar cane and various grains.</p> <p>Sodium Capryl Sulfonate – a completely biodegradable surfactant provides wetting and detergency.</p> <p>Diethylene Glycol Butyl Ether - It is commonly used as a solvent in cleaners. It is biodegradable and is not easily absorbed through the skin.</p> <p>Propylene Glycol Butyl Ether* - listed as Positive Environmental Profile builder on EPA design for the Environment Formulator Initiative. It is commonly used as a solvent in cleaners. It is biodegradable and is not easily absorbed through the skin.</p>

PRODUCT SPECIFICATIONS

Dilution:	1:40	Viscosity:	Water thin
Color:	Blue	Foam:	Moderate
Odor:	Mild Odor	Storage/Stability:	1 year
pH (concentrate):	4.0 – 5.0	Weight Per Gallon:	8.41 lbs.
pH (ready-to-use):	4.0 – 5.0	Freeze/Thaw Stability:	Keep from freezing

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Product Name: Non-Ammoniated Glass Cleaner – RTU
(1:40 Dilution)
Generic Name: Glass Cleaner
Chemical Family: Detergent blend
Formula: Proprietary

Supplier's Name: Leading Environmental Enhancements for Facilities
Supplier's Address: 280 Seward Drive, Rutland, VT, 05701
Supplier's Phone #: 800-950-3738

SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Acetic Acid	64-19-7	0 to 5			
Sodium Octanesulfonate	5324-84-5	0 to 5			
Diethylene Glycol Butyl Ether	112-34-5	0 to 5			
Propylene Glycol n-butyl Ether	5131-66-8	0 to 5			
Dye	Unknown	<0.05			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 212° F.
Vapor Pressure: 20mm Hg @68°F.
% Volatile: 80+
Solubility in Water: Complete
Physical Description: Thin clear light blue liquid with characteristic odor
VOC Content: None

Specific Gravity: 1.000
Vapor Density (Air=1): >1
pH: 4.0 – 5.0
Evaporation Rate (Water=1): >1

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None
Upper Explosion Limit: N/A
Extinguishing Media: Not required
Special Firefighting Procedures: None
Lower Explosion Limit: N/A
Unusual Fire and Explosion Hazards: N/A

SECTION 5-REACTIVITY DATA

Stability: Stable

Hazards Decomposition Products: Not Known

Hazardous Polymerization: None

Incompatibility (Materials to Avoid): Strong Alkalies, Chlorine

SECTION 6-STORAGE AND HANDLING INFORMATION

Slight eye irritant. Keep out of reach of children. Keep container closed during storage. For institutional and industrial use only. Avoid contact with eyes, skin and clothing. Avoid breathing of vapors or mists. Use in well-ventilated area.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

Skin: May cause dryness of skin with prolonged or repeated contact

Eyes: Mild eye irritant. May cause redness, tearing.

Inhalation: Mists may be slightly irritating with repeated contact

Ingestion: Slightly irritating to throat. May cause, nausea, abdominal pain if large amounts are ingested.

First Aid Procedures:

Skin: Flush with water. Seek medical attention if irritation persists.

Eyes: Flush with large quantities of water, holding eyelids open. Seek medical attention immediately.

Inhalation: Get to fresh air. Seek medical attention if irritation persists.

Ingestion: Do not induce vomiting. Drink large quantities of water. Seek medical attention immediately.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: No special requirements

Ventilation Requirements: No special requirements

Protective Gloves: Rubber gloves recommended

Eye Protection: Safety glasses recommended.

Other Protective Equipment: None

SECTION 9-SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled: Floors will become slippery. Avoid walking in product. Ventilate area well. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to storm sewer or open waterways.

Waste Disposal Method: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Disposal to sanitary sewer is permitted. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before offering for recycling.

SECTION 10-REGULATORY INFORMATION

SARA Title III - Section 311/312 -Hazard Categories:

No - Fire Hazard

No - Sudden Release of Pressure Hazard

No - Reactivity Hazard

Yes - Immediate (acute) Health Hazard

No - Delayed (chronic) Health Hazard

Shipping Information:

FOR CONTAINERS > 1 Gallon : Cleaning Compound
Non-Hazardous

FOR 1 GALLON CONTAINERS : Cleaning Compound
Non-Hazardous

FOR CONTAINERS < 1 GALLON : Cleaning Compound

HMIS Hazardous Materials Identification System

Health	1
Flammability	0
Reactivity	0
Personal Protection	B

FOR EMERGENCY MEDICAL OR TRANSPORT INFORMATION: CHEM-TEL, Inc. @ 800-255-3924 (24 hours, 7 days per week)

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS#	Chemical Name	Percent by Weight
None	None	None

This product contains the following chemical(s) which have been established to be either a carcinogen or suspected carcinogen.

CAS#	Chemical Name	Percent by Weight
None	None	None

SECTION 11-OTHER INFORMATION

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product