



**SAFETY DATA SHEET**

**Section 1 - Identification**

**Product Identifier** KLEER BRITE Non-Ammoniated Window & Glass Cleaner  
**Other means of identification** 1304  
**Recommended use** Glass cleaner.  
**Recommended restrictions** For commercial and industrial use only.  
**Manufacturer / Importer / Supplier / Distributor Information**  
**Company Name** National Chemical Laboratories of PA, Inc.  
**Address** 401 N. 10th Street - Philadelphia, PA 19123  
**Telephone** 1 (215) 922-1200  
**Supplier Email** info@nclonline.com  
**Contact** CHEM-TEL  
**Emergency Phone** 1 (800) 255-3924

**Section 2 - Hazard(s) Identification**

		Category	Target Organ
<b>Physical Hazards</b>	Not Classified		
<b>Health Hazards</b>	Serious eye damage/eye irritation	2B	
<b>OSHA defined hazards</b>	Not Classified.		
<b>Label Elements</b>			
<b>Hazard Symbol</b>	None.		
<b>Signal Word</b>	Warning		
<b>Hazard statement</b>	Causes eye irritation.		
<b>Precautionary statement</b>			
<b>Prevention</b>	Wash thoroughly after handling.		
<b>Response</b>	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
<b>Storage</b>	Store in a well-ventilated place. Keep cool.		
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.		
<b>Hazard(s) not otherwise classified (HNOC)</b>	Not classified.		

**Section 3 - Composition/Information on ingredients**

**Mixture**

Hazardous Components	Ingredient Name	CAS #	%
	2-Butoxyethanol	111-76-2	1 - 5
	2-Propanol	67-63-0	1 - 5

**Composition Comments**

**Section 4 - First-aid Measures**

**Inhalation** Move to fresh air. Get medical attention if irritation persists.  
**Skin contact** Wash skin with water. Get medical attention if irritation persists.  
**Eye contact** Flush eyes thoroughly with water for at least 15 minutes. Get medical attention if irritation persists.  
**Ingestion** Immediately rinse mouth and drink plenty of water. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. If person becomes uncomfortable seek medical advice.  
**Most important symptoms / effects, acute and delayed** May cause eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort. Prolonged or repeated skin contact may cause drying, cracking, or irritation.  
**Indication of immediate medical attention and special treatment** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.  
**General Information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Section 5 - Fire-fighting measures**

**Suitable extinguishing media** In case of fire, use water spray, dry chemical, or CO2. Avoid using a direct stream of water.

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<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire-fighting equipment /instructions</b>	Move containers from fire area if you can do it without risk. Cool material exposed to heat with water spray and remove it if no risk is involved.

**General fire hazards  
Specific Methods**

## Section 6 - Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures.</b>	Isolate area. Keep unnecessary personnel away. Ventilate the area. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protection as recommended in Section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	SMALL SPILLAGE: Absorb spillage with suitable absorbent material. LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## Section 7 - Handling and storage

<b>Precautions for safe handling</b>	Avoid breathing mist or vapor. Avoid contact eyes. Wash hands thoroughly after handling. Provide adequate ventilation. Keep container closed. Use Personal Protective Equipment recommended in section 8 of the SDS.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Store away from incompatible materials (see Section 10 of the SDS).

## Section 8 - Exposure control/personal protection

**Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m <sup>3</sup> , 50 ppm	
2-Propanol (CAS 67-63-0)	PEL	980 mg/m <sup>3</sup> , 400ppm	

**US. ACGIH Threshold Limit Values**

Component	Type	Value	Form
2-Propanol (CAS 67-63-0)	STEL	400 ppm	
2-Propanol (CAS 67-63-0)	TWA	200 ppm	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m <sup>3</sup> , 5 ppm	
2-Propanol (CAS 67-63-0)	STEL	1225 mg/m <sup>3</sup> . 500 ppm	
2-Propanol (CAS 67-63-0)	REL	980 mg/m <sup>3</sup> , 400 ppm	

**Biological limit values**

**US. ACGIH. BEIs. Biological Exposure Indices**

Components	Value	Determinate	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
2-Propanol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines** Use personal protective equipment as required. Keep working clothes separately.

**US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants**

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed though the skin.

**US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).**

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Skin designation applies.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed though the skin.

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## US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100)

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed though the skin.

## US.OSHA Table Z-1-A (29 CFR 1910.100)

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed though the skin.

## US.Rhode Island Hazardous Substances Right-to-Know Act (R.I. Gen. Laws Section 28-21-1 et. seq.)

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed though the skin.

## US.Tennessee. OELs Occupational Exposure Limkits, Table Z1A

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed though the skin.

**Appropriate engineering controls** Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities.

### Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Not required for casual contact. For prolonged contact, latex, nitrile or neoprene gloves are recommended.
<b>Other</b>	Wear suitable protective clothing if conditions risk exposure.
<b>Respiratory protection</b>	In case of inadequate ventilation, use respiratory protection.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## Section 9 - Physical and chemical properties

<b>Appearance</b>	Clear.
<b>Physical state</b>	Liquid.
<b>Form</b>	Clear, thin liquid.
<b>Color</b>	Light Blue.
<b>Odor</b>	Mild Alcohol.
<b>Odor threshold</b>	Not available.
<b>pH (Concentrate)</b>	10.4
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	212 °F (100 °C)
<b>Flash point</b>	> 201.0 °F (> 94.0 °C)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	0.99 ± 0.01
<b>Relative density temperature</b>	75 °F (23.89 °C)
<b>Solubilities</b>	Soluble
<b>Partition Coefficient n-octanol/water</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	< 10 cP
<b>Viscosity Temperature</b>	75 °F (23.89 °C)

## Section 10 - Stability and reactivity

<b>Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

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<b>Conditions to Avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids. Strong bases.
<b>Hazardous Decomposition Products</b>	No hazardous decomposition products are known.

## Section 11 - Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	May be harmful if swallowed.
<b>Inhalation</b>	Vapors and mist may irritate throat and respiratory system and cause coughing.
<b>Skin contact</b>	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
<b>Eye contact</b>	May cause eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**  
May cause eye irritation. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

### Information on toxicological effects.

**Acute toxicity** May be harmful if swallowed.

Components	Level	Type	Code	Species	Results
2-Butoxyethanol (CAS 111-76-2)	Acute	Dermal	LD50	Rabbit	400 mg/kg
	Acute	Inhalation	LC50	Rat	450 mg/l, 4 hrs
	Acute	Oral	LD50	Rat	560 mg/kg

**Skin corrosion/irritation** Prolonged or repeated contact may dry skin and cause irritation.

**Serious eye damage/ eye irritation** May cause eye irritation.

**Respiratory sensitization** Not classified.

**Skin sensitization** Not available.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Not classified.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Component	Result	Comment
2-Butoxyethanol (CAS 111-76-2)	3	Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** Not classified.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not available.

**Chronic effects**

**Further information**

## Section 12 - Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability** The product is expected to be biodegradable.

**Bioaccumulative potential** Not known.

### Partition coefficient n-octanol / water log (Kow)

Components	Results
2-Butoxyethanol (CAS 111-76-2)	0.83
2-Propanol (CAS 67-63-0)	0.05

**Mobility in soil** Not available.

**Mobility in general** The product is water soluble and may spread in water systems.

**Other adverse effects** None known.

## Section 13 - Disposal considerations

**Disposal instructions** Dispose in accordance with applicable federal, state, and local regulations.

**Local disposal regulations** Dispose of in accordance with local regulations.

**Hazardous waste code** D001: Waste Flammable material with a flash point <140 °F.

**Waste from residues / unused products** Dispose in accordance with all applicable regulations.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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## Section 14 - Transport information

**DOT** Not regulated as dangerous goods.  
**IATA** Not regulated as dangerous goods.  
**IMDG** Not regulated as dangerous goods.  
**Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code** Not established.

**General Information**

## Section 15 - Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)** Not regulated.  
**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not on regulatory list.  
**CERCLA Hazardous Substance List (40 CFR 302.4)**

Components	Result
2-Butoxyethanol (CAS 111-76-2)	LISTED
2-Propanol (CAS 67-63-0)	LISTED

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard	No
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

<b>SARA 302 Extremely hazardous substance</b>	No
<b>SARA 311/312 Hazardous chemical</b>	Yes
<b>SARA 313 (TRI reporting)</b>	

Chemical name	CAS #	% by wt.
2-Butoxyethanol	111-76-2	1 - 5

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List** Not regulated.  
**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)** Not regulated.  
**Safe Drinking Water Act (SDWA)** Not regulated.  
**Food and Drug Administration (FDA)** Not regulated.

**US state regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US.Massachusetts RTK - Substance List** Components  
 2-Propanol (CAS 67-63-0)  
 2-Butoxyethanol (CAS 111-76-2)

**US.New Jersey Worker and Community Right-to-Know Act** Components  
 2-Propanol (CAS 67-63-0)  
 2-Butoxyethanol (CAS 111-76-2)

**US.Pennsylvania RTK - Hazardous Substances** Components  
 2-Propanol (CAS 67-63-0)  
 2-Butoxyethanol (CAS 111-76-2)

**US.Rhode Island RTK** Components  
 2-Propanol (CAS 67-63-0)  
 2-Butoxyethanol (CAS 111-76-2)

**US - California Proposition 65 - Carcinogens Reproductive Toxicity (CRT): Listed substance** Not listed.

**International Inventories**

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

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Unites States  
Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

\*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## Section 16 - Other information, including date of preparation or last version

**Issue date** 2/13/2015

**Revision date**

**Version #** 01

**Further information** Not available.

**List of abbreviations**

**References** HSDB® - Hazardous Substances Data Bank

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