### Section 1 - Identification

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>KLEER BRITE Non-Ammoniated Window &amp; Glass Cleaner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>1304</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Glass cleaner.</td>
</tr>
<tr>
<td>Recommended restrictions</td>
<td>For commercial and industrial use only.</td>
</tr>
</tbody>
</table>

**Manufacturer / Importer / Supplier / Distributor Information**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>National Chemical Laboratories of PA, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>401 N. 10th Street - Philadelphia, PA 19123</td>
</tr>
<tr>
<td>Telephone</td>
<td>1 (215) 922-1200</td>
</tr>
<tr>
<td>Supplier Email</td>
<td><a href="mailto:info@nclonline.com">info@nclonline.com</a></td>
</tr>
<tr>
<td>Contact</td>
<td>CHEM-TEL</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>1 (800) 255-3924</td>
</tr>
</tbody>
</table>

### Section 2 - Hazard(s) Identification

**Physical Hazards**

- **Classification**: Not Classified

**Health Hazards**

- **Classification**: Serious eye damage/eye irritation

**OSHA defined hazards**

- **Classification**: Not Classified

**Label Elements**

- **Hazard Symbol**: None.
- **Signal Word**: Warning
- **Hazard Statement**: Causes eye irritation.
- **Precautionary statement**
- **Prevention**: Wash thoroughly after handling.
- **Response**: 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.
- **Storage**: Store in a well-ventilated place. Keep cool.
- **Disposal**: Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Hazard(s) not otherwise classified (HNOC)**: Not classified.

### Section 3 - Composition/Information on ingredients

**Mixture**

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

**Suitable extinguishing media**

In case of fire, use water spray, dry chemical, or CO2. Avoid using a direct stream of water.
SAFETY DATA SHEET

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
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.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures.
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.

Methods and materials for containment and cleaning up
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.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

Section 7 - Handling and storage

Precautions for safe handling
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.

Conditions for safe storage, including any incompatibilities
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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>240 mg/m³, 50 ppm</td>
<td></td>
</tr>
<tr>
<td>2-Propanol (CAS 67-63-0)</td>
<td>TWA</td>
<td>980 mg/m³, 400ppm</td>
<td></td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol (CAS 67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
<td></td>
</tr>
<tr>
<td>2-Propanol (CAS 67-63-0)</td>
<td>TWA</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>20 ppm</td>
<td></td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol (CAS 67-63-0)</td>
<td>TWA</td>
<td>24 mg/m³, 5 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Propanol (CAS 67-63-0)</td>
<td>IDLH</td>
<td>2000 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Propanol (CAS 67-63-0)</td>
<td>STEL</td>
<td>1225 mg/m³, 500 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Propanol (CAS 67-63-0)</td>
<td>TWA</td>
<td>980 mg/m³, 400ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

US. ACGIH. BEIs. Biological Exposure Indices

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
<th>Determinate</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol (CAS 67-63-0)</td>
<td>200 mg/g</td>
<td>Butoxyacetic acid (BAA), with hydrolysis</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
<tr>
<td>2-Propanol (CAS 67-63-0)</td>
<td>40 mg/l</td>
<td>Acetone</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>200 mg/g</td>
<td>Butoxyacetic acid (BAA), with hydrolysis</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
</tbody>
</table>

* - 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

<table>
<thead>
<tr>
<th>Components</th>
<th>Exposure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>Can be absorbed though the skin.</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Exposure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>Skin designation applies.</td>
<td></td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>Can be absorbed though the skin.</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Exposure</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>Can be absorbed though the skin.</td>
<td></td>
</tr>
</tbody>
</table>
US.OSHA Table Z-1-A (29 CFR 1910.100)
Components
2-Butoxyethanol (CAS 111-76-2)
Exposure
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
2-Butoxyethanol (CAS 111-76-2)
Exposure
Can be absorbed though the skin.

US.Tennessee. OELs Occupational Exposure Limitkts, Table Z1A
Components
2-Butoxyethanol (CAS 111-76-2)
Exposure
Can be absorbed though the skin.

Individual protection measures, such as personal protective equipment
Eye/face protection
If use of product risks exposure to contact, wear safety glasses with side shields.
Skin protection
Hand protection
Impervious gloves are recommended for prolonged use.
Other
If use of product risk exposure to contact, wear suitable protective clothing.
Respiratory protection
In case of inadequate ventilation, use respiratory protection.
Thermal hazards
Wear appropriate thermal protective clothing, when necessary.
General hygiene
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
Appearance
Clear.
Physical state
Liquid.
Form
Clear, thin liquid.
Color
Light Blue.
Odor
Mild Alcohol.
Odor threshold
Not available.
pH
10.4
Melting point/freezing point
Not available.
Initial boiling point and boiling range
212 °F (100 °C)
Flash point
> 201.0 °F (> 94.0 °C)
Evaporation rate
Not available.
Flammability (solid, gas)
Not applicable.
Upper/lower flammability or explosive limits
Flammability limit - lower (%)
Not available.
Flammability limit - upper (%)
Not available.
Explosive limit - lower (%)
Not available.
Explosive limit - upper (%)
Not available.
Vapor pressure
Not available.
Vapor density
Not available.
Relative density
0.99 ± 0.01
Relative density temperature
75 °F (23.9 °C)
Solubilities (water)
Soluble
Partition Coefficient
n-octanol/water
Not available.
Auto-ignition temperature
Not available.
Decomposition temperature
Not available.
Viscosity
< 10 cP
Viscosity Temperature
75 °F (23.9 °C)

Section 10 - Stability and reactivity
Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability
Stable at normal conditions.
Possibility of hazardous reactions
Hazardous polymerization does not occur.
Conditions to Avoid
Contact with incompatible materials.
Incompatible materials
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Hazardous Decomposition Products
No hazardous decomposition products are known.

Section 11 - Toxicological information

Information on likely routes of exposure

Inhalation May be harmful if inhaled. Vapors and mist may irritate throat and respiratory system and cause coughing.

Ingestion May be harmful if swallowed. May cause irritation of the digestive system.

Skin contact Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Eye contact 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.

Acute toxicity May be harmful if swallowed.

<table>
<thead>
<tr>
<th>Components</th>
<th>Level</th>
<th>Type</th>
<th>Code</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>Acute</td>
<td>Dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td>400 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Inhalation</td>
<td>LC50</td>
<td>Mouse</td>
<td>700 ppm, 7 hours</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Inhalation</td>
<td>LC50</td>
<td>Rat</td>
<td>450 mg/l, 4 hrs</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Guinea pig</td>
<td>1.2 g/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Mouse</td>
<td>1519 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rabbit</td>
<td>0.32 g/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rat</td>
<td>560 mg/kg</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>3</td>
<td>Not classifiable as to carcinogenicity to humans.</td>
</tr>
</tbody>
</table>

Reproductive toxicity Not classified.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not available.

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)

<table>
<thead>
<tr>
<th>Components</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol (CAS 67-63-0)</td>
<td>0.05</td>
</tr>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>0.83</td>
</tr>
</tbody>
</table>

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
IATA
IMDG
Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code
This substance/mixture is not intended to be transported in bulk.

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
2-Butoxyethanol (CAS 111-76-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard Categories
Immediate Hazard No
Delayed Hazard No
Fire Hazard No
Pressure Hazard No
Reactivity Hazard No

SARA 302 Extremely hazardous substance No
SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting)
Chemical name
2-Butoxyethanol
CAS #
111-76-2
% by wt.
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.

Drug Enforcement Administration (DEA), List 1 2
Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated.

DEA Exempt Chemical Mixtures Code Number
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

Food and Drug Administration (FDA)
Not regulated.

US state regulations
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-Butoxyethanol (CAS 111-76-2)

US - California Proposition 65
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.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory Name</th>
<th>On Inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Section 16 - Other information, including date of preparation or last version

| Revision date | 1/17/2018 |
| Version #     | 02        |
| Further information | Not available. |

References
- HSDB® - Hazardous Substances Data Bank
- HPVIS - High Production Volume Information System

Disclaimer
The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer’s control, it is the user’s responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product’s improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.