

SAFETY DATA SHEET

Conforms to OSHA HazCom 2012 Standard

Section 1 - Identification

Product Identifier KLEAR VIEW Non-Ammoniated Window & Glass Cleaner

Recommended use Glass cleaner.

Recommended restrictions For commercial and industrial use only.

Manufacturer / Importer / Supplier / Distributor Information

Company Name Leonard Paper Company

Address 725 North Haven Street, Baltimore, MD 21205-2986

Telephone

Supplier Email info@leonardpaper.com

Contact

Emergency Phone 1 (800) 327-5547

Section 2 - Hazard(s) Identification

Physical Hazards Not Classified

Health Hazards Serious eye damage/eye irritation 2B

OSHA defined hazards 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

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.

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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.
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 /instruction	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

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

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

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

US. ACGIH Threshold Limit Values

Component	Type	Value
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
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m ³ , 5 ppm
2-Propanol (CAS 67-63-0)	STEL	1225 mg/m ³ . 500 pp
2-Propanol (CAS 67-63-0)	REL	980 mg/m ³ , 400 ppn

Biological limit values

US. ACGIH. BEIs. Biological Exposure Indices

Component	Value	Determinate
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis
2-Propanol (CAS 67-63-0)	40 mg/l	Acetone

* - 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

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

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

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

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

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

US.Tennessee. OELs Occupational Exposure Limits, Table Z1A

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

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

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Not required for casual contact. For prolonged contact, latex, nitrile or neoprene gloves are recommended.

Other Wear suitable protective clothing if conditions risk exposure.

Respiratory protection In case of inadequate ventilation, use respiratory protection.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations 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 (Concentrate)	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 (23.89 °C)
Solubilities	Soluble

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Partition Coefficient n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	< 10 cP
Viscosity Temperature	75 °F (23.89 °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 reaction	Hazardous polymerization does not occur.
Conditions to Avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products	No hazardous decomposition products are known.

Section 11 - Toxicological information

Information on likely routes of exposure

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

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)

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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.

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-CERCLA Hazardous Substance List (40 CFR 302.4) Not on regulatory list.

Components	Result
2-Butoxyethanol (CAS 111-76-2)	LISTED
2-Propanol (CAS 67-63-0)	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	CAS #	% by wt.
2-Butoxyethanol	111-76-2	1 - 5

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

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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	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
Unites States	Toxic Substances Control Act (TSCA) Inventory	Yes
Puerto Rico		

*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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Disclaimer

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