

**SAFETY DATA SHEET**

**Section 1 - Identification**


**Product Identifier** ENDURE™ Heavy Duty Bonnet & Traffic Lane Carpet Cleaner  
**Other means of identification** 0621  
**Recommended use** Detergent.  
**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**

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

	<b>Classification</b>	<b>Category</b>
<b>Physical Hazards</b>	Not Classified	
<b>Health Hazards</b>	Serious eye damage/eye irritation	1
	Skin corrosion/irritation	1
<b>OSHA defined hazards</b>	Not Classified.	
<b>Label Elements</b>		
<b>Hazard Symbol</b>		
<b>Signal Word</b>	Danger	
<b>Hazard Statement</b>	Causes severe skin burns and eye damage.	
<b>Precautionary statement</b>		
<b>Prevention</b>	Do not breathe the mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.	
<b>Response</b>	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.	
<b>Storage</b>	Store locked up.	
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.	

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

**Mixture**

<b>Hazardous Components</b>	<b>Ingredient Name</b>	<b>CAS #</b>	<b>%</b>
	4-Nonylphenol, branched, ethoxylated	127087-87-0	5 - 10
	2-Butoxyethanol	111-76-2	1 - 5
	Sodium Hydroxide	1310-73-2	0.1 - 1

**Section 4 - First-aid Measures**

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin contact** Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do.

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<b>Ingestion</b>	Continue rinsing. Call a physician or poison control center immediately.
<b>Most Important symptoms /effects, acute and delayed</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
<b>Indication of immediate medical attention and special treatment</b>	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
<b>General Information</b>	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## Section 5 - Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<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.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Specific Methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## Section 6 - Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures.</b>	Isolate area. Keep unnecessary personnel away. 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>	Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Store locked up. Store in original tightly closed container. 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)	TWA	240 mg/m <sup>3</sup> , 50 ppm	
Sodium Hydroxide (CAS 1310-73-2)	TWA	2 mg/m <sup>3</sup>	

#### US. ACGIH Threshold Limit Values

Component	Type	Value	Form
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>	

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

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m <sup>3</sup> , 5 ppm
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>

#### 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	*

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

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

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

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

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

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## US.NIOSH: Pocket Guide to Chemical Hazards

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

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

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

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

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

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

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

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### 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 insufficient ventilation, wear suitable respiratory equipment. No personal respiratory protective equipment normally required.

**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

<b>Appearance</b>	Clear.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Colorless.
<b>Odor</b>	Butyl.
<b>Odor threshold</b>	Not available.
<b>pH</b>	13.2
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	212 °F (100 °C)
<b>Flash point</b>	None to boiling.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<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>	Similar to water.
<b>Vapor density</b>	Similar to water.
<b>Relative density</b>	1.01 ± 0.01
<b>Relative density temperature</b>	75 °F (23.9 °C)
<b>Solubilities (water)</b>	100 % 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 cSt
<b>Viscosity Temperature</b>	75 °F (23.9 °C)

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## Section 10 - Stability and reactivity

<b>Reactivity</b>	Reacts violently with strong acids. This product may react with oxidizing agents.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to Avoid</b>	Do not mix with other chemicals. Contact with incompatible materials.
<b>Incompatible materials</b>	Acids. Oxidizing agents.
<b>Hazardous Decomposition Products</b>	No hazardous decomposition products are known.

## Section 11 - Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Causes digestive tract burns.
<b>Inhalation</b>	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes severe skin burns. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
<b>Eye contact</b>	Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

### Information on toxicological effects.

#### Acute toxicity

Components	Level	Type	Code	Species	Results
2-Butoxyethanol (CAS 111-76-2)	Acute	Dermal	LD50	Rabbit	400 mg/kg
	Acute	Inhalation	LC50	Mouse	700 ppm, 7 hours
	Acute	Inhalation	LC50	Rat	450 mg/l, 4 hrs
	Acute	Oral	LD50	Guinea pig	1.2 g/kg
	Acute	Oral	LD50	Mouse	1519 mg/kg
	Acute	Oral	LD50	Rabbit	0.32 g/kg
	Acute	Oral	LD50	Rat	560 mg/kg
Sodium Hydroxide (CAS 1310-73-2)	Acute	Oral	LD50	Rabbit	500 mg/kg

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/ eye irritation** Causes serious eye damage.

**Respiratory sensitization** This product is not expected to cause respiratory sensitization.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### 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** This product is not expected to cause reproductive or developmental effects.

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

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

**Aspiration hazard** Not classified.

**Chronic effects** May be harmful if absorbed through skin. Prolonged inhalation may be harmful.  
2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

## 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** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

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

Components	Results
2-Butoxyethanol (CAS 111-76-2)	0.83
4-Nonylphenol, branched, ethoxylated (CAS 127087-87-0)	2.1 - 3.4 (Calculated)

**Mobility in soil** No data available.

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<b>Mobility in general</b>	No data available.
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Section 13 - Disposal considerations

<b>Disposal instructions</b>	Dispose in accordance with applicable federal, state, and local regulations.
<b>Local disposal regulations</b>	Dispose of in accordance with local regulations.
<b>Hazardous waste code</b>	Waste codes should be assigned by the user based on the application for which the product was used.
<b>Waste from residues / unused products</b>	Dispose in accordance with all applicable regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## Section 14 - Transport information

### DOT

<b>UN number</b>	UN1824
<b>Proper shipping name</b>	SODIUM HYDROXIDE SOLUTION
<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	III
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Labels required</b>	8
<b>Special provisions</b>	IB3, N34, T4, TP1
<b>Packaging exemption</b>	154
<b>Packaging non bulk</b>	203
<b>Packaging bulk</b>	This substance/mixture is not intended to be transported in bulk.

### IATA

<b>UN number</b>	UN1824
<b>UN proper shipping name</b>	SODIUM HYDROXIDE SOLUTION
<b>Transport hazard class(es)</b>	8
<b>Packaging group</b>	III
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	8L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other Information</b>	

### IMDG

<b>UN number</b>	UN1824
<b>UN proper shipping name</b>	SODIUM HYDROXIDE SOLUTION
<b>Transport hazard class(es)</b>	8
<b>Packaging group</b>	III
<b>Environmental hazards</b>	No.
<b>Marine pollutant</b>	
<b>EmS</b>	F-A, S-B
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**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 listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Components	Result
Sodium Hydroxide (CAS 1310-73-2)	LISTED
2-Butoxyethanol (CAS 111-76-2)	LISTED

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

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

