# SAFETY DATA SHEET

## Section 1 - Identification

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>ENDURA™ Ultra Premium Water-Based Urethane Wood Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>1600</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Wood floor finish.</td>
</tr>
<tr>
<td>Recommended restrictions</td>
<td>For commercial and industrial use only. Not for use or sale in California.</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Physical Hazards</th>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazards</td>
<td>Reproductive toxicity (the unborn child)</td>
<td>1B</td>
</tr>
</tbody>
</table>

**Label Elements**

- **Hazard Symbol**: Warning
- **Signal Word**: Warning
- **Hazard Statement**: Suspected of damaging fertility or the unborn child.

**Precautionary statement**

- **Prevention**: Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection.
- **Response**: Wash thoroughly after handling. If exposed or concerned: Get medical advice/attention.
- **Storage**: Store away from incompatible materials.
- **Disposal**: Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)**: None known.

## Section 3 - Composition/Information on ingredients

### Mixture

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-ethyl-2-Pyrrolidone</td>
<td>2687-91-4</td>
<td>1 - 5</td>
<td></td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>34590-94-8</td>
<td>1 - 5</td>
<td></td>
</tr>
<tr>
<td>n-Methyl Pyrrolidone</td>
<td>872-50-4</td>
<td>1 - 5</td>
<td></td>
</tr>
</tbody>
</table>

## Section 4 - First-aid Measures

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>Rinse mouth. Get medical attention if irritation persists.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>Wash off with soap and water. Get medical attention if irritation persists.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Rinse mouth. Get medical attention if irritation persists.</td>
</tr>
<tr>
<td>Most Important symptoms/effects, acute and delayed</td>
<td>May cause eye irritation on direct contact.</td>
</tr>
<tr>
<td>Indication of immediate medical attention and special treatment</td>
<td>Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.</td>
</tr>
<tr>
<td>General Information</td>
<td>If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the</td>
</tr>
</tbody>
</table>
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material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Section 5 - Fire-fighting measures

| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| 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. |
| General fire hazards | No unusual fire or explosion hazards noted. |
| Specific Methods | Use standard firefighting procedures and consider the hazards of other involved materials. |

Section 6 - Accidental release measures

| Personal precautions, protective equipment and emergency procedures | Isolate area. Keep unnecessary personnel away. 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. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |

Section 7 - Handling and storage

| Precautions for safe handling | Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Pregnant or breast-feeding women must not handle this product. |
| Conditions for safe storage, including any incompatibilities | 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. Workplace environmental Exposure Level (WEEL) Guides

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Methyl Pyrrolidone (CAS 872-50-4)</td>
<td>TWA</td>
<td>40 mg/m³, 10 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>TWA</td>
<td>600 mg/m³, 100ppm</td>
</tr>
</tbody>
</table>

#### US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>STEL</td>
<td>150 ppm</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
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#### US. NIOSH: Pocket Guide to Chemical Hazards

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<td>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>STEL</td>
<td>900 mg/m³, 150 ppm</td>
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</tbody>
</table>

#### US. ACGIH. BEIs. Biological Exposure Indices

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinate</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Methyl Pyrrolidone (CAS 872-50-4)</td>
<td>100 mg/l</td>
<td>5-Hydroxy-N-methyl-2-pyrrolidone</td>
<td>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>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>Can be absorbed through the skin.</td>
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<th>Component</th>
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<tr>
<td>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>Can be absorbed through the skin.</td>
</tr>
</tbody>
</table>

#### US. Tennessee. OELs Occupational Exposure Limitks. Table Z1A
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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.

Respiratory protection
Chemical respirator with organic vapor cartridge if the recommended exposure limit is exceeded.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

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
Chemical respirator with organic vapor cartridge if the recommended exposure limit is exceeded.

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
Thin, opaque liquid.

Physical state
Liquid.

Form
Liquid.

Color
White.

Odor
Mild. Characteristic.

Odor threshold
Not available.

pH
7.8

Melting point/freezing point
Not relevant.

Initial boiling point and boiling range
212 °F (100 °C)

Flash point
None to boiling.

Evaporation rate
Not available.

Flammability (solid, gas)
Not available.

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
Similar to water.

Vapor density
Similar to water.

Relative density
1.04 ± 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
<20 cSt

Viscosity Temperature
75 °F (23.9 °C)

Section 10 - Stability and reactivity

Reactivity
The product is stable and 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
Strong oxidizing agents.

Hazardous Decomposition Products
Carbon monoxide. Carbon dioxide.
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Section 11 - Toxicological information

Information on likely routes of exposure

Inhalation
No adverse effects due to inhalation are expected.

Ingestion
Expected to be a low ingestion hazard.

Skin contact
No adverse effects due to skin contact are expected.

Eye contact
Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects.

Acute toxicity
Not expected to be acutely toxic.

<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>n-Methyl Pyrrolidone (CAS 872-50-4)</td>
<td>Acute</td>
<td>Dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td>8000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Inhalation</td>
<td>LDLO</td>
<td>Rat</td>
<td>&gt;5100 ppm, 4 h</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rat</td>
<td>3914 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation
Direct contact with eyes may cause temporary irritation.

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.

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>n-Methyl Pyrrolidone (CAS 872-50-4)</td>
<td>-0.54</td>
</tr>
</tbody>
</table>

Mobility in soil
No data 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
Waste codes should be assigned by the user based on the application for which the product was used.

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
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.
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One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D) Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Immediate Hazard</th>
<th>Delayed Hazard</th>
<th>Fire Hazard</th>
<th>Pressure Hazard</th>
<th>Reactivity Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 302 Extremely hazardous substance</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>SARA 311/312 Hazardous chemical</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA 313 (TRI reporting) Not regulated.

Chemical name: n-Methyl Pyrrolidone
CAS #: 872-50-4
% 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.
- Safe Drinking Water Act (SDWA) Not regulated.
- Food and Drug Administration (FDA) Not regulated.

US state regulations

- US. Massachusetts RTK - Substance List Components
  - n-Methyl Pyrrolidone (CAS 872-50-4)
- US. New Jersey Worker and Community Right-to-Know Act Components
  - Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)
- US. Pennsylvania RTK - Hazardous Substances Components
  - n-Methyl Pyrrolidone (CAS 872-50-4)
  - Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)
- US. Rhode Island RTK Components
  - n-Methyl Pyrrolidone (CAS 872-50-4)

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>No</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>No</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>No</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>No</td>
</tr>
<tr>
<td>United States</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

* 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

- Revision date: 2/22/2019
- Version #: 04
- 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.

ENDURA™ Ultra Premium Water-Based Urethane Wood Finish 1600