


SAFETY DATA SHEET

Section 1 - Identification

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| Product Identifier | ENDURA™ Ultra Premium Water-Based Urethane Wood Finish |
| Other means of identification | 1600 |
| Recommended use | Wood floor finish. |
| Recommended restrictions | For commercial and industrial use only. Not for use or sale in California. |
| 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.

| | Classification | Category |
|--|--|----------|
| Physical Hazards | Not Classified | |
| Health Hazards | Reproductive toxicity (the unborn child) | 1B |
| OSHA defined hazards | Not Classified. | |
| Label Elements | | |
| Hazard Symbol |  | |
| 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 | | | |
| Hazardous Components | Ingredient Name | CAS # | % |
| | 1-ethyl-2-Pyrrolidone | 2687-91-4 | 1 - 5 |
| | n-Methyl Pyrrolidone | 872-50-4 | 1 - 5 |

Section 4 - First-aid Measures

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| Inhalation | Move to fresh air. Get medical attention if irritation persists. |
| Skin contact | Wash off with soap and water. Get medical attention if irritation persists. |
| Eye contact | 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. |
| Ingestion | Rinse mouth. Get medical attention if irritation persists. |
| Most Important symptoms /effects, acute and delayed | May cause eye irritation on direct contact. |
| 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 | If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |

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Section 5 - Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). |
| 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

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| 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. 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

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| 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

| Component | Type | Value |
|-------------------------------------|------|-------------------------------|
| n-Methyl Pyrrolidone (CAS 872-50-4) | TWA | 40 mg/m ³ , 10 ppm |

US. ACGIH. BEIs. Biological Exposure Indices

| Components | Value | Determinate | Specimen | Sampling Time |
|-------------------------------------|----------|----------------------------------|----------|---------------|
| n-Methyl Pyrrolidone (CAS 872-50-4) | 100 mg/l | 5-Hydroxy-N-methyl-2-pyrrolidone | Urine | * |

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

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

US.WEEL Guides: Skin designation

| Components | Exposure |
|-------------------------------------|-----------------------------------|
| n-Methyl Pyrrolidone (CAS 872-50-4) | Can be absorbed through the skin. |

Appropriate engineering controls Minimize the risk of inhalation of vapors and mists. Provide adequate ventilation or exhaust to maintain air concentrations below recommended exposure limits. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

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| 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

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|-----------------------|-----------------------|
| Appearance | Thin, opaque liquid. |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | White. |
| Odor | Mild. Characteristic. |
| Odor threshold | Not available. |

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| 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

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| 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. |

Section 11 - Toxicological information

Information on likely routes of exposure

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| Ingestion | Expected to be a low ingestion hazard. |
| Inhalation | No adverse effects due to inhalation are expected. |
| 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.

| Components | Level | Type | Code | Species | Results |
|---------------------------------------|-------|------------|------|---------|------------------------|
| 1-ethyl-2-Pyrrolidone (CAS 2687-91-4) | Acute | Dermal | LD50 | Rat | 2,000 mg/kg |
| | Acute | Inhalation | LC50 | Rat | 51000 ppm Rat, 4 hours |
| | Acute | Oral | LD50 | Rat | 3,200 mg/kg |
| n-Methyl Pyrrolidone (CAS 872-50-4) | Acute | Dermal | LD50 | Rabbit | 8000 mg/kg |
| | Acute | Inhalation | LDLO | Rat | >5100 ppm, 4 h |
| | Acute | Oral | LD50 | Rat | 3914 mg/kg |

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.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

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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.

Component(s)

n-Methyl Pyrrolidone, 872-50-4

Aquatic

| Level | Type | Code | Species | Test Results |
|-------|-----------|------|---------------------------------------|----------------------|
| | Algae | EC50 | Desmodesmus subspicatus (green algae) | 500 mg/l, 72 hours |
| | Bacteria | EC50 | Activated Sludge | 600 mg/l, 0.5 hours |
| | Bacteria | LC50 | Las bacterias | 9,000 mg/l |
| | Crustacea | EC50 | Daphnia magna (Water flea) | 1,000 mg/l, 24 hours |
| | Fish | LC50 | Leuciscus idus (Golden orfe) | 500 mg/l, 96 h |
| | Fish | LC50 | Other fish | 4,000 mg/l, 96h |

1-ethyl-2-Pyrrolidone, 2687-91-4

Aquatic

| | | | |
|-----------|------|---------------------------------------|--------------------------|
| Algae | EC50 | Desmodesmus subspicatus (green algae) | 101 mg/l, 72 hours |
| Crustacea | EC50 | Daphnia Magna (Water flea) | 104 mg/l, 48 hours |
| Fish | LC50 | Danio rerio (zebra fish) | 464 - 999 mg/l, 96 hours |

Persistence and degradability The product is expected to be biodegradable.

Bioaccumulative potential Not known.

Partition coefficient n-octanol / water log (Kow)

| Components | Results |
|---------------------------------------|---------|
| n-Methyl Pyrrolidone (CAS 872-50-4) | -0.46 |
| 1-ethyl-2-Pyrrolidone (CAS 2687-91-4) | -0.2 |

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. One or more components are not listed on TSCA.

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) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| | | |
|--------------------------|------------------|-----|
| Hazard Categories | Immediate Hazard | No |
| | Delayed Hazard | Yes |
| | Fire Hazard | No |
| | Pressure Hazard | No |

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Reactivity Hazard No
SARA 302 Extremely hazardous substance Not listed.
SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting) Not regulated.

| | | |
|----------------------|----------|----------|
| Chemical name | CAS # | % by wt. |
| n-Methyl Pyrrolidone | 872-50-4 | 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 n-Methyl Pyrrolidone (CAS 872-50-4) |
| US.Pennsylvania RTK - Hazardous Substances | Components n-Methyl Pyrrolidone (CAS 872-50-4) |
| US.Rhode Island RTK | Components n-Methyl Pyrrolidone (CAS 872-50-4) |

International Inventories

| Country(s) or region | Inventory Name | On Inventory (yes/no)* |
|---------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| 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) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances | No |
| Unites States Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

*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 1/17/2021

Version # 05

HMIS Hazard Codes PPE A

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