# SAFETY DATA SHEET

## Section 1. Identification

**Product name** : Lenox® Pro Tool Lube™

**Material uses** : Lubricants

**Manufacturer** : Lenox Tools
301 Chestnut Street
East Longmeadow, MA 01028

**Emergency telephone number (with hours of operation)** : CHEMTREC (U.S. and Canada) 1-800-424-9300
CHEMTREC (Outside the U.S.) +1-703-527-0585

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
SKIN SENSITIZATION - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 33.4%

**GHS label elements**

**Hazard pictograms** :

**Signal word** : Warning

**Hazard statements** : Causes eye irritation.
May cause an allergic skin reaction.

**Precautionary statements**

**Prevention** : Wear protective gloves. Wear eye or face protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

**Response** : IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. 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 attention.

**Storage** : Not applicable.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified** : None known.

# Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| Ingredient name | % | CAS number |
|---|---|---|
| Propane-1,2-diol, propoxylated | 7.76 | 25322-69-4 |
| 2,2',2"-nitrilotriethanol | 4.68 | 102-71-6 |
| Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether | 4.019 | 9038-95-3 |
| Distillates (petroleum), hydrotreated light | 3.351 | 64742-47-8 |
| 2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol | 0.421 | 4719-04-4 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

# Section 4. First aid measures

## Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:
irritation
watering
redness

**Inhalation** : No specific data.

# Section 4. First aid measures

**Skin contact** : Adverse symptoms may include the following:
irritation
redness

**Ingestion** : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**See toxicological information (Section 11)**

# Section 5. Fire-fighting measures

## Extinguishing media

**Suitable extinguishing media** : water spray, $CO_2$

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Section 6. Accidental release measures

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

## Control parameters

### Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| Propane-1,2-diol, propoxylated | **AIHA WEEL (United States, 10/2011).** TWA: 10 mg/m³ 8 hours. Form: Aerosol |
| 2,2',2''-nitrilotriethanol | **ACGIH TLV (United States, 6/2013).** TWA: 5 mg/m³ 8 hours. |
| Distillates (petroleum), hydrotreated light | **ACGIH TLV (United States, 6/2013). Absorbed through skin.** TWA: 200 mg/m³, (as total hydrocarbon vapor) 8 hours. |

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 8. Exposure controls/personal protection

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Color** : Translucent. Amber.

**Odor** : Characteristic.

**Odor threshold** : Not available.

**pH** : 8.8

**Melting point** : Not available.

**Boiling point** : >93.3°C (>199.9°F)

**Flash point** : Not available.

**Burning time** : Not applicable.

**Burning rate** : Not applicable.

**Evaporation rate** : Not available.

**Flammability (solid, gas)** : Not available.

**Lower and upper explosive (flammable) limits** : Not available.

**Vapor pressure** : <0.13 kPa (<1 mm Hg) [room temperature]

**Vapor density** : >1 [Air = 1]

**Relative density** : 1.03

**Solubility** : Easily soluble in the following materials: cold water and hot water.

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/water** : Not available.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**SADT** : Not available.

**Viscosity** : Not available.

# Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : No specific data.

**Incompatible materials** : Keep away from strong acids.; alkalis

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

### Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| 2,2',2"-nitrilotriethanol | LD50 Oral | Rat | 7.39 g/kg | - |
| 2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol | LD50 Oral | Rat | 763 mg/kg | - |

### Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| Propane-1,2-diol, propoxylated | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Eyes - Mild irritant | Rabbit | - | 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| 2,2',2"-nitrilotriethanol | Eyes - Mild irritant | Rabbit | - | 10 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 20 milligrams | - |
| | Skin - Mild irritant | Human | - | 72 hours 15 milligrams Intermittent | - |
| | Skin - Severe irritant | Mouse | - | 50 Percent | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 560 milligrams | - |
| Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether | Eyes - Severe irritant | Rabbit | - | 50 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |

### Sensitization

No known significant effects or critical hazards.

### Mutagenicity

No known significant effects or critical hazards.

### Carcinogenicity

#### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| 2,2',2"-nitrilotriethanol | - | 3 | - |

### Reproductive toxicity

# Section 11. Toxicological information

No known significant effects or critical hazards.

### Teratogenicity

No known significant effects or critical hazards.

### Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

### Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

### Aspiration hazard

| Name | Result |
|---|---|
| Distillates (petroleum), hydrotreated light | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Causes eye irritation.

**Potential delayed effects** : May cause an allergic skin reaction.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

No known significant effects or critical hazards.

# Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| Propane-1,2-diol, propoxylated | Acute LC50 650000 µg/l Marine water | Fish - Menidia beryllina | 96 hours |
| 2,2',2''-nitrilotriethanol | Acute LC50 100000 µg/l Marine water | Crustaceans - Crangon crangon - Adult | 48 hours |
| | Acute LC50 11800000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 16000 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| Distillates (petroleum), hydrotreated light | Acute LC50 2200 µg/l Fresh water | Fish - Lepomis macrochirus | 4 days |

## Section 12. Ecological information

| | | | |
|---|---|---|---|
| 2,2',2"-(hexahydro-1,3, 5-triazine-1,3,5-triyl)triethanol | Acute EC50 26.1 ppm Fresh water<br><br>Acute LC50 39 ppm Fresh water | Daphnia - Daphnia magna<br><br>Fish - Lepomis macrochirus | 48 hours<br><br>96 hours |

### Persistence and degradability

No known significant effects or critical hazards.

### Bioaccumulative potential

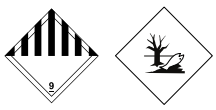
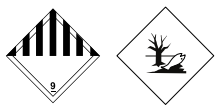
| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| Propane-1,2-diol, propoxylated | -0.68 to 0.01 | - | low |
| 2,2',2"-nitrilotriethanol | -1 | <3.9 | low |
| 2,2',2"-(hexahydro-1,3, 5-triazine-1,3,5-triyl)triethanol | -2 | - | low |

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | IMDG | IATA |
|---|---|---|---|---|---|
| **UN number** | 9006 | 9006 | 9006 | 9006 | 9006 |
| **UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Poly(oxy-1,2-ethanediyl), α-(1-oxododecyl)-ω-hydroxy-) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Poly(oxy-1,2-ethanediyl), α-(1-oxododecyl)-ω-hydroxy-). Marine pollutant | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Poly(oxy-1,2-ethanediyl), α-(1-oxododecyl)-ω-hydroxy-) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Poly(oxy-1,2-ethanediyl), α-(1-oxododecyl)-ω-hydroxy-). Marine pollutant (Poly(oxy-1,2-ethanediyl), α-(1-oxododecyl)-ω-hydroxy-, Distillates ( petroleum), hydrotreated light) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Poly(oxy-1,2-ethanediyl), α-(1-oxododecyl)-ω-hydroxy-) |
| **Transport hazard class(es)** | -  | -  | -  | 9  | 9  |

## Section 14. Transport information

| | | | | | |
|---|---|---|---|---|---|
| **Packing group** | - | - | - | - | - |
| **Environmental hazards** | Yes. | Yes. | Yes. | Yes. | Yes. |
| **Additional information** | The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes.<br><br>**Remarks**<br>The product is only regulated as a dangerous good when transported in tank vessels. | The marine pollutant mark is not required when transported by road or rail.<br><br>**Remarks**<br>The product is only regulated as a dangerous good when transported in tank vessels. | **Remarks**<br>The product is only regulated as a dangerous good when transported in tank vessels. | The product is only regulated as a dangerous good when transported in tank vessels. | The product is only regulated as a dangerous good when transported in tank vessels. |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

**U.S. Federal regulations** : **United States inventory (TSCA 8b)**: All components are listed or exempted.

**SARA 311/312**

**Classification** : Immediate (acute) health hazard
Delayed (chronic) health hazard

**Composition/information on ingredients**

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|---|---|---|---|---|---|
| Propane-1,2-diol, propoxylated | 7.76 | No. | No. | No. | Yes. | No. |
| 2,2',2''-nitrilotriethanol | 4.68 | No. | No. | No. | Yes. | No. |
| Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether | 4.019 | No. | No. | No. | Yes. | No. |
| Distillates (petroleum), hydrotreated light | 3.351 | Yes. | No. | No. | No. | No. |
| 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol | 0.421 | No. | No. | No. | Yes. | No. |

**California Prop. 65**

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.
**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|---|---|---|---|---|
| ethylene oxide | Yes. | Yes. | Yes. | Yes. |

**Canada**

**WHMIS (Canada)** : Class D-2B: Material causing other toxic effects (Toxic).

# Section 15. Regulatory information

**Canadian lists**

**Canadian NPRI** : The following components are listed: Hydrotreated light distillate

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : At least one component is not listed in DSL but all such components are listed in NDSL.

# Section 16. Other information

**History**

**Date of issue/Date of revision** : 3/12/2015.

**Date of previous issue** : 3/12/2015.

**Version** : 2

**Prepared by** : Product Safety.

**Key to abbreviations** : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
UN = United Nations

**Indicates information that has changed from previously issued version.**

**Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.**