



**SECTION 1: PRODUCT AND COMPANY INFORMATION**

**Manufacturer** Dennison Lubricants Inc., 111 Rhode Island Road, Lakeville, MA 02347 - [www.denlube.com](http://www.denlube.com)  
1-800-564-5142 Toll Free - 1-508-946-0500 Phone - 1-508-946-3400 Fax - [info@denlube.com](mailto:info@denlube.com)  
**Trade Name** Pennwood R&O 32  
**Chemical Family:** Petroleum Hydrocarbon  
**Product ID** Pennwood R&O 32

**24-Hour Emergency Phone Number: CHEMTREC 1-800-565-5142**

**SECTION 2: HAZARD IDENTIFICATION**

**Classification:** Not classified as hazardous according to 29 CFR 1910.1200 (2012)

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS Number	Percentage
Distillates, petroleum, solvent refined, light paraffinic	67441-89-5	30-50
Distillates, petroleum, solvent refined, heavy paraffinic	64741-88-4	40-60
Proprietary Ingredients	Mixture	0-2

**SECTION 4: FIRST AID MEASURES**

**Skin Contact** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Eye Contact** If in eyes: Flush eyes with water for 15 minutes lifting upper and lower lids occasionally. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Inhalation** No specific first aid measures are required. If exposed to excessive levels of material in the air, Move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

**Ingestion** If swallowed seek immediate medical attention. Do not induce vomiting unless recommended by physician. If spontaneous vomiting occurs, keep head below hips to avoid aspiration (into lungs). SPECIAL NOTE TO PHYSICIAN: In general, lubricating oils have a low oral toxicity.

**Delayed or Other Symptoms and Health Effects**  
Not Classified.

**SECTION 5: FIREFIGHTING MEASURES**

**Basic Firefighting Procedures**

FIRE FIGHTING NFPA Rating: Health - 0 Fire - 1 Reactivity - 0 PROCEDURES: Hazard Rating: Least - 0 Slight - 1 High - 3 Extreme - 4 EXTINGUISHING MEDIA: Carbon dioxide, regular foam or dry chemical CONDITIONS OF FLAMMABILITY: Intense heat, sparks or flame

**Fire Fighting Instructions:**

This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Decomposition and combustion products may be toxic. Heated containers may rupture, explode or be thrown into the air. Vapors are heavier than air and may travel great distances to ignition sources and flash back or explode. Not sensitive to mechanical impact or static discharge.

**Combustion Products:**

Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Refer to Section 8: Exposure Control and Personal Protection

##### Protective Measures

Eliminate all sources of ignition in vicinity of spilled material.

**Spill Management:** Remove all ignition sources. Stop leak if you can do it without risk. Ventilate area and avoid breathing vapor or mist. For large spills, dike far ahead of liquid spill for later disposal. Contain away from surface waters and sewers. Absorb with compatible absorbent material and shovel into closable container for disposal. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Notification** Any spill or release to navigable water that causes a visible sheen upon the water must be reported immediately to the National Response Center (800/424-8802), as required by U.S. federal law.

#### SECTION 7: HANDLING AND STORAGE

Refer to Section 8: Exposure Control and Personal Protection

##### Precautionary Measures:

Keep away from intense heat, sparks or flame. Avoid contact with eyes, skin, clothing or shoes. Use in well-ventilated area and avoid breathing vapor or mist. Product boils and foams excessively when heated above 200°F.

##### General Handling Information:

Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco products. Clean contaminated clothing, shoes and protective equipment before reuse. Discard contaminated clothing, shoes or protective equipment if they cannot be thoroughly cleaned.

##### Container Warnings:

Keep container tightly closed when not in use and during transport. Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

#### SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

**Component:** Highly refined mineral oil: ACGIH TLV TWA: 5 mg/m<sup>3</sup> 8 hours. (Inhalable fraction) NIOSH REL TWA: 5 mg/m<sup>3</sup> 10 hours. (Mist)

##### Engineering Controls

Provide process enclosure or local ventilation needed to maintain concentration of vapor or mist below applicable exposure limits.

##### Eye and Face Protection

Wear protective eyewear. Do NOT wear contact lenses. Use face shield if splashing is possible.

##### Skin Protection

Use Neoprene, Nitrile, PVC or equivalent gloves to prevent contact with skin. Do NOT use natural rubber or equivalent gloves.

##### Respiratory Protection

Use NIOSH/MSHA-approved respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limit. A self-contained breathing apparatus (SCBA) and full protective equipment is required for fire emergencies. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134 or in Canada with CSA Standard Z94.4-M1982.

##### Other Protective Equipment

Where spills and splashes are possible, wear appropriate oil-resistant boots, apron or other protective clothing. Clean water should be available in work areas for flushing the eyes and skin.

Note - Pressurized Oil Injury - Oil injected into the skin from high-pressure leaks in hydraulic systems can cause severe injury. Most damage occurs during the first few hours. Seek medical attention immediately. Surgical removal of oil may be necessary.



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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### General Information:

##### Physical State

Form: Liquid

Color: Amber

Odor: Mild Petroleum

##### Important Health, Safety and Environment Info

Boiling Point/Range: NA

Flash Point: 414°F / 212°C (COC)

Auto Ignition Temp: N/A

Lower Flammability Limit: N/A Upper

Flammability Limit: N/A Vapor Pressure

(mm): <0.01 mm Hg at 20°C

Vapor Density (Air= 1) : >10

Freezing Point/Melting Point: N/A

Solubility (Water): Insoluble in Cold Water

Specific Gravity: 0.87 (7.42 lbs. /gal.

Evaporation Rate: <0.01

Viscosity (cSt @ 40°C) 33 (ASTM 2161) 170 SUS @ 100°F)

pH: N/A

##### Other Information:

Volatility: Negligible

Water Reactive: No

Gravity, °API (ASTM D287) = 31.3 @ 60° F

**Note:** Physical Data is typical values based on material tested, but may vary based on composition. Values should not be accepted as guaranteed for every lot or as specifications for this product.

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity** Material is stable under normal conditions.

#### Stability/Incompatibility/ Conditions to Avoid:

Avoid oxidizing agents, intense heat, sparks or flame

#### Hazardous Reactions/Decomposition Products

Material does not decompose at ambient temperatures. Smoke, carbon monoxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptan and sulfides may also be released.

#### Hazardous Polymerization

Will not occur.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Acute Toxicity Component Workplace Exposure Limits:

Base Oil: Acute oral toxicity LD50 (Rat) : >5.2 mg/L . Exposure Time: 4h, Test atmosphere: dust/mist Acute dermal toxicity LD50 (Rat) > 2000 mg/kg

#### Likely Routes of Exposure

Eyes and skin contact; inhalation of incidental mists or vapors; ingestion.

**Acute Effects** Eyes: Contact may produce mild eye irritation and redness. Skin: Contact may produce mild skin irritation.

No significant skin absorption hazard Inhalation (Breathing): High concentration of vapor or mist may be irritating to the respiratory tract. Ingestion (Swallowing): Low order of acute oral toxicity. May cause irritation of gastrointestinal tract, nausea and vomiting. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

**Chronic Effects** Prolonged or repeated skin contact may cause drying or dermatitis. Any acute symptoms may be aggravated. Individuals with pre-existing lung or disorders may have increased susceptibility to the effects of exposure.

**Symptoms** May include redness, drying, cracking of the skin, gastrointestinal and respiratory discomfort. Refer to Sections 2 and 4 for recommended actions.

**Carcinogenicity** No components of this product are found to be carcinogens by NTP, IARC or OSHA.

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#### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

**Persistence and Biodegradability**

Biodegradation: Base oil component -- Expected to be inherently biodegradable.

**Bioaccumulative Potential**

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

**Mobility in Soil** Not Determined.

#### SECTION 13: DISPOSAL CONSIDERATION

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

#### SECTION 14: TRANSPORT INFORMATION

**DOT PROPER SHIPPING NAME:** Not regulated

**DOT CLASS:** Not regulated

**DOT ID NUMBER:** Not regulated

**TDG CLASSIFICATION:** Not regulated

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:** Not applicable

#### SECTION 15: REGULATORY INFORMATION

**SARA 302 Components**

No components subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

No components are subject to reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

None

**State Right To Know Components**

New Jersey: Petroleum Oil

**California Prop. 65 Components:**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### SECTION 16: OTHER INFORMATION

Notice Dennison Lubricants Inc. believes that the information given herein is accurate. Final determination of suitability of any material is the sole responsibility of the user.