

**MSDS - Material Safety Data Sheet****Product Name: LIQUID WRENCH LUBRICATING OIL (POUR)**

MSDS No.: L204

**I. Basic Information:****Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Country:****Contact:** Robert Geer**Information Telephone Number:** 704-684--181 1**Emergency Contact:** Rocky Mountain Poison Control Center**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** LIQUID WRENCH LUBRICATING OIL (POUR)**MSDS No.:** L204**Issue Date:** 10/05/2009**Supersedes Date:** 02/20/2008**II. Hazards Identification:****EMERGENCY OVERVIEW**

Danger: Harmful if swallowed. Eye and skin irritant.

**OSHA Regulatory Status**

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product.

**Potential Health Effects****Route(s) of Entry:**

Absorption, Inhalation, and Ingestion.

**Health Hazards (Acute and Chronic):**

See signs and symptoms below.

**Signs and Symptoms:**

Eye Contact: Irritant. Prolonged contact may cause conjunctivitis.

Skin Contact: Irritant. Defatting of tissue, dermatitis may occur.

Inhalation: Irritant to mucous membranes. Repeated exposure may cause narcosis, dizziness, respiratory or lung irritation.

Ingestion: HARMFUL OR FATAL IF SWALLOWED. May cause burns to mouth, throat &amp; stomach.

**Medical Conditions Generally Aggravated by Exposure:**

Unknown

**Other Health Warnings:**

Vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

**Potential Environmental Effects**

Not Available

**III. Composition/Information on Ingredients:**

Chemical Name	CAS No.	% Range	Trade Secret
2-Butoxy-1-Ethanol	111-76-2	1-5	
Naphthenic Petroleum Distillate	64742-52-5	60.0 - 100.0	

**IV. First Aid Measures:****Emergency and First Aid Procedures:**

Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

Skin Contact: Wash skin with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Remove and isolate contaminated clothing. Launder contaminated clothing before reuse.

Inhalation: Move victim to fresh air. If breathing becomes difficult, administer oxygen and get prompt medical attention. If breathing stops, give artificial respiration and get prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately. Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal.

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*MSDS No.: L204*

**Note to Physicians:**

N/E

#### ***V. Fire Fighting Measures:***

**Suitable Extinguishing Media:**

Water Fog, Foam, Carbon Dioxide, Dry Chemical

**Unsuitable Extinguishing Media:**

Do not use forced water stream as this could cause the fire to spread.

**Products of Combustion:**

Normal products of combustion, smoke, carbon dioxide, carbon monoxide, and sulfur trioxides.

**Protection of Firefighters:**

Wear self-contained positive pressure breathing apparatus and protective clothes. Use shield to protect from rupturing and venting containers. At elevated temperatures containers may vent, rupture or burst, even violently

#### ***VI. Accidental Release Measures:***

**Personal Precautions:**

Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

**Environmental Precautions:**

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred. Run off to sewer may create fire or explosion hazard.

**Methods for Containment:**

Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).

**Methods for Cleanup:**

Using a non-metallic scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material.

**Other Information:**

All equipment used with handling the concentrate must be grounded. If run-off occurs, notify proper authorities as required that a spill has occurred.

#### ***VII. Handling and Storage:***

**Handling Precautions:**

Handling: Use with adequate ventilation and proper protective equipment. Keep away from open flames, sparks, or other ignition sources. Use good hygiene practices before handling food.

**Storage Precautions:**

Store in a cool, dry area, away from oxidizers and below 120°F, away from heat, fire, sparks or flame.

#### ***VIII. Exposure Controls/Personal Protection:***

<b>Chemical Name</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Other Limits</b>
2-Butoxy-1-Ethanol	50 ppm	25 ppm	Not Available
Naphthenic Petroleum Distillate	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Not Available

**Engineering Controls:**

Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

**Personal Protective Equipment:**

For prolonged exposure wear protective safety glasses, gloves, and apron.

**MSDS - Material Safety Data Sheet****Product Name: LIQUID WRENCH LUBRICATING OIL (POUR)****MSDS No.: L204****IX. Physical and Chemical Properties:****Boiling Point:** 320 F**Boiling Range:** N/D**Solubility In Water:** Insoluble**Flash Point:** >200°F**Odor Threshold:** N/D**Vapor Density (AIR = 1):** N/D**pH Range:** N/A**Decomposition Temp:** N/D**Lower Explosive Limit:** N/D**Specific Gravity (H2O = 1):** 0.90**Other Information:** N/D**Melting Point:** N/A**Freezing Point:** N/D**Evaporation Rate (Butyl Acetate = 1):** N/A**Flash Point Method:** TCC**Appearance and Odor:** Clear yellow with sweet vanilla odor**Vapor Pressure (mm Hg.):** N/D**Partition Coefficient:** N/D**Auto-Ignition Temp:** N/D**Upper Explosive Limit:** N/D**X. Stability and Reactivity:****Stability:**

Product is stable

**Conditions to Avoid:**

Avoid heat, sparks, and flames. Avoid incompatible materials.

**Incompatible Materials:**

Avoid contact with strong oxidizers

**Hazardous Decomposition Products:**

Normal products of combustion, smoke, carbon dioxide, carbon monoxide, and sulfur trioxides.

**Possibility of Hazardous Reactions:**

Will not occur

**XI. Toxicological Information:**

Not Established

**XII. Ecological Information:**

Not Established

**XIII. Disposal Considerations:**

DISPOSAL: This container may be recycled when empty. Before offering for recycling, empty the can by using the product according to the label. If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations.

**XIV. Transport Information:****Shipping Name:** Not DOT Regulated**DOT Hazard Class:** Not Regula**UN/NA#:** Not Available**Transportation Information:****DOT Subsidiary Hazard Class:** Not Available**Packing Group:** Not Available

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MSDS No.: L204

DOT Shipping Name: Not DOT regulated.  
 DOT Hazard Class: None

The above DOT description is provided to assist in the proper shipping classification of this product by ground and may not be suitable for all shipping purposes.

For international shipping: ICAO, AND IMDG

Not Regulated

**XV. Regulatory Information:**

SARA 313 Reportable Chemicals:  
 2 Butoxyethanol 111-76-2

USA TSCA: All components of this material are listed on the US TSCA Inventory.

State RTK Chemicals:  
 2 Butoxyethanol 111-76-2

**XVI. Other Information:**

**Chemical State:**     Liquid     Gas     Solid

**Chemical Type:**     Pure     Mixture

**Hazard Category:**

Acute                     Chronic                     Fire

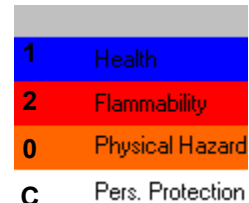
Pressure                     Reactive



**Additional Manufacturer Warnings:**

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

N/E: Not Established  
 N/D: Not Determined  
 N/A: Not Applicable  
 N/AV: Not Available



**Additional Product Information:**

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.