

**MSDS - Material Safety Data Sheet****Product Name: LIQUID WRENCH PENETRATING OIL (Liquid)****MSDS No.: L104****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:** RMPDC (877-740-5015)**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** LIQUID WRENCH PENETRATING OIL (Liquid)**MSDS No.:** L104**Issue Date:** 08/30/2011**Supersedes Date:** 09/13/2010**II. Hazards Identification:****EMERGENCY OVERVIEW**

Caution: Eye and skin irritant. Rags, steel wool or waste contaminated with this product may spontaneously catch fire if improperly discarded.

**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**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 can cause conjunctivitis.

Skin Contact: Prolonged or repeated skin contact may cause drying, cracking or irritation.

Inhalation: Will not produce vapors unless heated to temperature of 300°F.

Ingestion: Small amounts swallowed are not likely to cause injury. Larger amounts may cause nausea and vomiting.

**Medical Conditions Generally Aggravated by Exposure:**

Unknown

**Other Health Warnings:**

Unknown

**Potential Environmental Effects**

Not Available

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

Chemical Name	CAS No.	% Range	Trade Secret
Corrosion Inhibitor	Proprietary	1.0 - 5.0	
Hydrocarbon Fluid	64742-47-8	7.0 - 13.0	
Methyl soyate	67784-80-9	60.0 - 100.0	
PTFE/boron nitride colloid	Proprietary	0.1 - 1.0	
Tripropylene Glycol Monomethyl Ether	25498-49-1	3.0 - 7.0	

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

## *MSDS - Material Safety Data Sheet*

### *Product Name: LIQUID WRENCH PENETRATING OIL (Liquid)*

**MSDS No.: L104**

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

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

Inhalation: Remove to fresh air. If breathing becomes difficult give 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.

**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 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. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

**Storage Precautions:**

Store in a cool, dry area away from oxidizers.

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

<b>Chemical Name</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Other Limits</b>
Methyl soyate	N/E	N/E	Not Available
Tripropylene Glycol Monomethyl Ether	N/E	N/E	Not Available
Hydrocarbon Fluid	5 mg/m3	5 mg/m3	Not Available
PTFE/boron nitride colloid	N/E	N/E	Not Available
Corrosion Inhibitor	N/E	N/E	Not Available

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MSDS No.: L104

**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.

**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/E**Specific Gravity (H2O = 1):** 0.89**Other Information:** VOC Content: 0.%**Melting Point:** N/D**Freezing Point:** N/D**Evaporation Rate (Butyl Acetate = 1):** N/A**Flash Point Method:** TCC**Appearance and Odor:** opaque yellow liquid with fragrance**Vapor Pressure (mm Hg.):** N/D**Partition Coefficient:** N/D**Auto-Ignition Temp:** N/D**Upper Explosive Limit:** N/E**X. Stability and Reactivity:****Stability:**

Product is stable

**Conditions to Avoid:**

See Incompatible Materials below

**Incompatible Materials:**

Avoid contact with strong oxidizing agents, acetaldehyde, acids, bases and chlorine.

**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 in a recycling centers when empty. Before offering for recycling, empty the can or bottle 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 Available

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**DOT Hazard Class:** Not Available

**DOT Subsidiary Hazard Class:** Not Available

**UN/NA#:** Not Available

**Packing Group:** Not Available

**Transportation Information:**

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.

None

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

State RTK Chemicals:

Glycol Ether TPM CAS# 25498-49-1

**XVI. Other Information:**

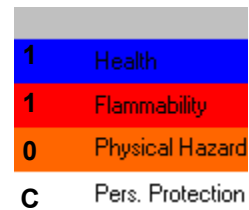
**Chemical State:**     Liquid     Gas     Solid  
**Chemical Type:**     Pure     Mixture  
**Hazard Category:**  
 Acute     Chronic     Fire  
 Pressure     Reactive



**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.