

**MSDS - Material Safety Data Sheet****Product Name: LIQUID WRENCH PENETRATING OIL****MSDS No.: L112****I. Basic Information:****Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Country:** USA**Contact:** Robert Geer**Information Telephone Number:** 704--68-4-18 11**Emergency Contact:** Rocky Mountain Poison & Drug Center**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** LIQUID WRENCH PENETRATING OIL**MSDS No.:** L112**Issue Date:** 02/21/2014**Supersedes Date:** 08/31/2012**H. Hazards Identification:****EMERGENCY OVERVIEW**

Danger: Flammable. Harmful or fatal if swallowed. Eye and skin irritant. Contents Under Pressure

Level 3 Aerosol

**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):**

N/D

**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:**

N/D

**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
Carbon dioxide	124-38-9	1.0 - 5.0	
Corrosion Inhibitor	Proprietary	0.1 - 1.0	
Hydrocarbon Fluid	64742-47-8	60.0 - 100.0	
PTFE/boron nitride colloid	Proprietary	0.1 - 1.0	
TMP Tri-Oleate Polyol Ester	Proprietary	1.0 - 5.0	
Tripropylene Glycol Monomethyl Ether	25498-49-1	7.0 - 13.0	

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### 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 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. Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal.

#### 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:

Use with adequate ventilation and proper protective equipment. Do not use or store near fire, sparks, or open flame. Do not puncture or incinerate container. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS! Danger: Flammable.

#### Storage Precautions:

Do not use or store near fire, sparks, or open flame. Store at temperatures below 120°F. Avoid contact with strong oxidizers

### VIII. Exposure Controls/Personal Protection:

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Hydrocarbon Fluid	5 mg/m3	5 mg/m3	Not Available
Trippropylene Glycol Monomethyl Ether	N/E	N/E	Not Available
TMP Tri-Oleate Polyol Ester	N/E	N/E	Not Available
Corrosion Inhibitor	N/E	N/E	Not Available
PTFE/boron nitride colloid	N/E	N/E	Not Available
Carbon dioxide	N/AV	5000 ppm	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.

**IX. Physical and Chemical Properties:****Boiling Point:** 320 F**Boiling Range:** Not Available**Solubility in Water:** Insoluble**Flash Point:** 200°F**Odor Threshold:** Not Available**Vapor Density (AIR = 1):** N/A**pH Range:** Not Available**Decomposition Temp:** Not Available**Lower Explosive Limit:** 0.7%**Specific Gravity (H2O = 1):** 0.89**Other Information:** VOC Content: < 1%**Melting Point:** N/A**Freezing Point:** Not Available**Evaporation Rate (Butyl Acetate = 1):** N/A**Flash Point Method:** TCC**Appearance and Odor:** opaque yellow with pleasant odor**Vapor Pressure (mm Hg.):** N/A**Partition Coefficient:** Not Available**Auto-Ignition Temp:** Not Available**Upper Explosive Limit:** 5%**X. Stability and Reactivity:****Stability:**

Product is stable

**Conditions to Avoid:**

See Incompatible Materials below

**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:**

N/D



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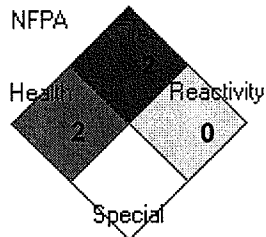
MSDS No.: L112

### XVI. Other Information:

Chemical State:  Liquid  Gas  Solid

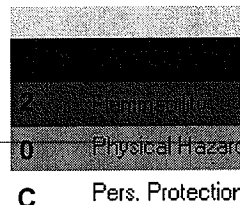
Chemical Type:  Pure  Mixture

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.