

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH UNIVERSAL CHAIN LUBE****MSDS No.: L711ER****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:** 704-684--181 1**Emergency Contact:** RMPDC (877-740-5015)**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** LIQUID WRENCH UNIVERSAL CHAIN LUBE**MSDS No.:** L711ER**Issue Date:** 11/15/2013**Supersedes Date:** Not Available**II. Hazards Identification:****EMERGENCY OVERVIEW**

Danger: Harmful for 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:**

Eyes, skin, inhalation, ingestion

Health Hazards (Acute and Chronic):

See signs and symptoms below

Signs and Symptoms:

Eye Irritant. Skin irritation, defatting and dermatitis on prolonged exposure.

Vapors harmful. May cause irritation to lungs, narcosis effects.

Harmful if swallowed.

Medical Conditions Generally Aggravated by Exposure:

None known

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
1,2,4-Trimethylbenzene	95-63-6	0.10 - 1.0	
2-Butoxyethoxy-2-ethanol	112-34-5	1.0 - 5.0	
Aliphatic Hydrocarbon	64742-96-7	30.0 - 60.0	
Aliphatic Hydrocarbon Solvent	8052-41-3	10.0 - 30.0	
Carbon dioxide	124-38-9	1.0 - 5.0	
Corrosion Inhibitor	Proprietary	1.0 - 5.0	
Ethylbenzene	100-41-4	<0.1	
Ethylene/Propylene Co-Polymer	9010-79-1	1.0 - 5.0	
Isopropylbenzene	98-82-8	0.1 - 1.0	
Molybdenum, bis carbamodithioate oxo thioxo complexes	906665-74-5	0.1 - 1.0	

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Petroleum Oil	64742-65-0	10.0 - 30.0
Trimethyl benzene	25551-13-7	1.0 - 5.0
Zinc Compound	19210-06-1	<0.1

IV. First Aid Measures:

Emergency and First Aid Procedures:

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

Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately.

Note to Physicians:

N/D

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: Carbon dioxide, carbon monoxide, smoke, nitrogen and sulfur oxides

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:

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.

Do not use near fire, sparks, or 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!

Storage Precautions:

Store in cool, well ventilated area below 120°F away from heat sources.

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VIII. Exposure Controls/Personal Protection:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Aliphatic Hydrocarbon Solvent	100 ppm	100 ppm	Not Available
Ethylene/Propylene Co-Polymer	N/E	N/E	Not Available
1,2,4-Trimethylbenzene	N/E	25 ppm	Not Available
Trimethyl benzene	25 ppm (TWA)	25 ppm (TWA)	Not Available
Carbon dioxide	N/AV	5000 ppm	Not Available
Ethylbenzene	100 ppm	100 ppm	Not Available
Petroleum Oil	5 mg/m3	5 mg/m3	Not Available
Zinc Compound	N/E	N/E	Not Available
Molybdenum, bis carbamodithioate oxo thioxo complexes	5 mg/m3	10 mg/m3	Not Available
Isopropylbenzene	50 ppm	50 ppm	Not Available
Aliphatic Hydrocarbon	Not Available	N/D	Not Available
Corrosion Inhibitor	N/E	N/E	Not Available
2-Butoxyethoxy-2-ethanol	N/E	N/E	35 ppm

Engineering Controls:

See above Section for applicable exposure limits. 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: 315°F

Boiling Range: N/D

Solubility In Water: Insoluble

Flash Point: 142°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): 0.87

Other Information: VOC Content: < 24%

Melting Point: N/A

Freezing Point: N/D

Evaporation Rate (Butyl Acetate = 1): N/D

Flash Point Method: TCC

Appearance and Odor: Opaque bright yellow with petroleum 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:**

Stable

Conditions to Avoid:

See Incompatible Materials below.

Incompatible Materials:

Oxidizing agents and acids.

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Normal products of combustion: Carbon dioxide, carbon monoxide, smoke, nitrogen and sulfur oxides

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

N/D

XII. Ecological Information:

N/D

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in aerosol recycling centers when empty. Before offering for recycling, empty the can by using the product according to the label. DO NOT PUNCTURE! 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:** Consumer Commodity**DOT Hazard Class:** ORM-D**DOT Subsidiary Hazard Class:** Not Available**UN/NA#:** Not Available**Packing Group:** Not Available**Transportation Information:****DOT Hazard Class:** ORM-D**Shipping Name:** Consumer Commodity

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for international and air shipping purposes.

ICAO/IATA (US)**Shipping Name:** Aerosols**Class:** 2.1**UN number:** UN1950**International:****ICAO/IATA****UN number:** UN1950**Shipping Name:** Aerosols**Class:** 2.1**IMDG****UN number:** UN1950**Shipping Name:** Aerosols**Class:** 2.1**EmS:** F-D, S-U**XV. Regulatory Information:**

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SARA 313 Reportable Chemicals:

- 1,2,4-Trimethylbenzene (95-63-6)
- Ethylbenzene (100-41-4)
- Isopropylbenzene (98-82-8)
- Zinc Dithiophosphate (19210-06-1)
- 2-Butoxyethoxy-2-Ethanol (112-34-5)

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

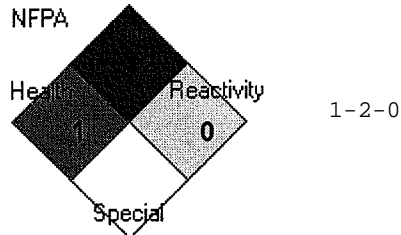
Warning: This product contains a chemical(s) known to the State of California to cause cancer or birth defects or other reproductive harm.

State RTK Chemicals:

- 1,2,4-Trimethylbenzene (95-63-6)
- Ethylbenzene (100-41-4)
- Isopropylbenzene (98-82-8)
- Zinc Dithiophosphate (19210-06-1)
- 2-Butoxyethoxy-2-Ethanol (112-34-5)
- Carbon dioxide (124-38-9)
- 1,2,4-Trimethylbenzene (95-63-6)
- Trimethylbenzene (25551-13-7)
- Aliphatic Hydrocarbon Solvent (8052-41-3)
- Aliphatic Hydrocarbon Solvent (8052-41-3)

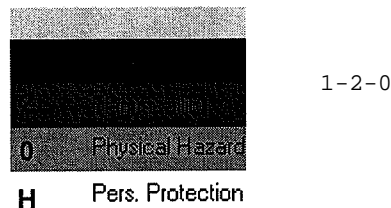
XVI. Other Information:

- 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.