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# MSDS - Material Safety Data Sheet Product Name: LIQUID WRENCH FOAMING PENETRANT &

LUBRICANT L4

MSDS No.: L412

# I. Basic Information:

Manufacturer: RADIATOR SPECIALTY COMPANY Contact: Robert Geer

Address: 600 RADIATOR ROAD Information Telephone Number: 704-684--181 1

City, ST Zip: INDIAN TRAIL, NC 28079 Emergency Contact: Rocky Mountain Poision Control Center

Country: Emergency Telephone Number: 303-623-5716

**Emergency Restrictions:** 

Product Name: LIQUID WRENCH FOAMING PENETRANT & LUBRICANT L4

**MSDS No.:** L412

**Issue Date:** 06/06/2008 **Supersedes Date:** 09/12/2006

# II. Hazards Identification:

#### **EMERGENCY OVERVIEW**

Danger: Harmful or Fatal if Swallowed. Eye and Skin Irritant. Contents Under Pressure.

Level 2 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, Eye, 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. Dermatitis may occur.

Inhalation: Product mist is an irritant to mucous membranes. Repeated exposure may cause narcosis..

Ingestion: HARMFUL OR FATAL 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
Carbon dioxide	124-38-9	1.0 - 5.0	
Corrosion Inhibitor	Proprietary	10.0 - 30.0	
Petroleum Distillate, Hydrotreated Middle	64742-46-7	15.0 - 40.0	
Petroleum Lubricating Oil Base Stock	64742-18-3	1.0 - 5.0	
Polytetrafluoroethylene	9002-84-0	1.0 - 5.0	
Synthetic Ester	Proprietary	15.0 - 40.0	
Zinc Compound	19210-06-1	0.1 - 1.0	

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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 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/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

## **Protection of Firefighters:**

Wear self-contained positive pressure breathing apparatus and protective clothes. Cool containers with a water fog. Use shield to protect from rupturing and venting containers.

## 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.

#### **Methods for Containment:**

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

#### Methods for Cleanup:

Using a 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:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occured.

## VII. Handling and Storage:

#### **Handling Precautions:**

Handling: Use with adequate ventilation and proper protective equipment. Do not use or store near fire, sparks, or flame. Do not puncture or incinerate container. Exposure to temperatures above 120° may cause container to vent, rupture, or burst.

#### **Storage Precautions:**

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!

# VIII. Exposure Controls/Personal Protection:

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Synthetic Ester	N/E	N/E	5 mg/m3
Petroleum Distillate, Hydrotreated Middle	5 mg/m3	5 mg/m3	Not Available
Corrosion Inhibitor	N/E	N/E	Not Available
Petroleum Lubricating Oil Base Stock	N/E	N/E	Not Available
Polytetrafluoroethylene	N/D	N/D	Not Available
Carbon dioxide	N/AV	5000 ppm	Not Available
Zinc Compound	N/E	N/E	Not Available

## **Engineering Controls:**

See Section above 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: > 300°F Melting Point: N/A

Boiling Range: Not Available Freezing Point: Not Available

Solubility In Water: Insoluble Evaporation Rate (Butyl Acetate = 1): >1

Flash Point: > 200°F Flash Point Method: TCC

Odor Threshold: Not Available Appearance and Odor: Slight viscous yellow brown color with a

petroleum odor

 Vapor Density (AIR = 1):
 N/D

 pH Range:
 Not Available

 Decomposition Temp:
 Not Available

 Lower Explosive Limit:
 N/D

Vapor Pressure (mm Hg.):
Not Available
Auto-Ignition Temp:
Not Available
Upper Explosive Limit:
N/D

Lower Explosive Limit: N/D Specific Gravity (H20 = 1): 0.88

Other Information: Moisture Content: < 0.07%

VOC Content: 0%

## X. Stability and Reactivity:

# Stability:

Stable

#### **Conditions to Avoid:**

See Incompatible Materials below.

## **Incompatible Materials:**

Keep away from strong oxidizers and acids.

## **Hazardous Decomposition Products:**

Normal products of Combustion

## Possibility of Hazardous Reactions:

Will not occur

## XI. Toxicological Information:

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# 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: Not Available

DOT Hazard Class: Not Available

DOT Hazard Class: Not Available DOT Subsidiary Hazard Class: Not Available

UN/NA#: Not Available Packing Group: Not Available

<u>Transportation Information:</u>
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: E-D, S-U

## XV. Regulatory Information:

SARA 313 Reportable Chemicals: Zinc Compounds (proprietary)

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

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XVI. Other Information:							
Chemical State:	X Liquid	Gas	Solid	NFPA	Fire		
Chemical Type:	Pure	X Mixture	_	Health	1 Reastivity		
Hazard Category:				1	0		
X Acute	Chronic  X Pressure	Fire Reactive			Specjal		
Additional Manufacture	r 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!			1	Health			
			1	Flammability			
N/E: Not Established				0	Physical Hazard		
N/D: Not Determined					Pers. Protection		

## **Additional Product Information:**

N/A: Not Applicable N/AV: Not Available

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