

**MSDS - Material Safety Data Sheet****Product Name: LIQUID WRENCH WHITE LITHIUM GREASE WITH CERFLON**

MSDS No.: L616

**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 Poison Control Center**Country:****Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** LIQUID WRENCH WHITE LITHIUM GREASE WITH CERFLON**MSDS No.:** L616**Issue Date:** 06/03/2008**Supersedes Date:** 04/10/2008**II. Hazards Identification:****EMERGENCY OVERVIEW**

Danger: Harmful or fatal if swallowed. Vapor harmful. Eye and skin irritant. Contents under pressure.

Level 1 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):**

Excessive ingestion may cause stomach irritation, nausea, vomiting. Can cause liver damage and affect the kidneys adversely.

**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..

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

**Medical Conditions Generally Aggravated by Exposure:**

Prolonged exposure above the OSHA permissible exposure limit may complicate existing liver and kidney diseases.

**Other Health Warnings:**

Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal. Do not administer adrenaline or other sympathommietic drugs to persons overexposed to Perchloroethylene.

**Potential Environmental Effects**

Not Available

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

Chemical Name	CAS No.	% Range	Trade Secret
1,2,4-Trimethylbenzene	95-63-6	0.1 - 1.0	
Aliphatic Hydrocarbon Solvent	8052-41-3	7.0 - 13.0	
Carbon dioxide	124-38-9	1.0 - 5.0	
Lithium Grease	Proprietary	10.0 - 30.0	
Low Odor Base Solvent	Proprietary	1.0 - 5.0	
Mesitylene	108-67-8	0.1 - 1.0	
Naphthenic Petroleum Distillate	64742-52-5	10.0 - 30.0	
Tetrachloroethylene	127-18-4	40.0 - 70.0	
Xylene (mixed isomers)	1330-20-7	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. 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. Use shield to protect from rupturing and venting containers.

##### Products of Combustion:

May liberate corrosive hydrochloric acid or toxic phosgene fumes.

##### Protection of Firefighters:

Not Available

#### VI. Accidental Release Measures:

##### Personal Precautions:

Not Available

##### Environmental Precautions:

Not Available

##### Methods for Containment:

Not Available

##### Methods for Cleanup:

Not Available

##### Other Information:

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc). Shovel up and place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material. 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.

#### 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. Exposure to temperatures above 120° may cause container to vent, rupture, or burst.

##### Storage Precautions:

Vapors are heavier than air and will collect in low areas. This material or its vapors when in contact with flames, hot glowing surfaces or electric arcs can decompose to form hydrogen chloride gas and possible traces of phosgene. Avoid contamination with water supplies.

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

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Tetrachloroethylene	25 ppm	25 ppm	Not Available
Lithium Grease	N/E	N/E	Not Available
Carbon dioxide	N/AV	5000 ppm	Not Available
Aliphatic Hydrocarbon Solvent	100 ppm	100 ppm	NJ RTK
1,2,4-Trimethylbenzene	N/E	25 ppm	Not Available
Mesitylene	N/A	N/A	Not Available
Xylene (mixed isomers)	100 ppm	100 ppm	Not Available
Low Odor Base Solvent	N/E	N/E	Not Available
Naphthenic Petroleum Distillate	5 mg/m3	5 mg/m3	Not Available

**Engineering Controls:**

See above for applicable exposure limits. Maintain adequate ventilation.

Avoid breathing vapors. In restricted areas, use approved chemical filters designed to remove vapor. In confined areas, use approved air line type respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above TLV limits.

**Personal Protective Equipment:**

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

**IX. Physical and Chemical Properties:****Boiling Point:** >200°F**Boiling Range:** Not Available**Solubility In Water:** Insoluble**Flash Point:** > 200°F**Odor Threshold:** Not Available**Vapor Density (AIR = 1):** 5.83**pH Range:** N/A**Decomposition Temp:** Not Available**Lower Explosive Limit:** Not Available**Specific Gravity (H2O = 1):** 1.20**Other Information:** VOC Content: 12%**Melting Point:** N/A**Freezing Point:** Not Available**Evaporation Rate (Butyl Acetate = 1):** >1.0**Flash Point Method:** TCC**Appearance and Odor:** Opaque dense off white suspension with sweet odor**Vapor Pressure (mm Hg.):** Not Det.**Partition Coefficient:** Not Available**Auto-Ignition Temp:** Not Available**Upper Explosive Limit:** Not Available**X. Stability and Reactivity:****Stability:**

Stable

**Conditions to Avoid:**

N/D

**Incompatible Materials:**

Avoid contact with metals such as aluminum powders, magnesium powders, potassium, sodium, and zinc powder. Avoid contact with amines, strong bases, and oxidizers.

**Hazardous Decomposition Products:**

Under fire conditions may include carbon dioxide, carbon monoxide, phosgene and chlorine. Flames, welding, and high temperatures induce decomposition. In the presence of water: hydrochloric acid.

**Possibility of Hazardous Reactions:**

Will not occur

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**XI. Toxicological Information:**

ACUTE INHALATION LC50: (rats) 5040 ppm for 8 hours. Moderately toxic.  
ACUTE DERMAL LD50: (rabbit) > 3228 mg/kg. Slight to very low toxicity  
SKIN IRRITATION: Mildly irritating.  
EYE IRRITATION: Mildly irritating.  
ACUTE ORAL LD50: (rats) 2629 mg/kg. Moderately toxic.

This product is listed under IARC as a 2A

**XII. Ecological Information:**

Toxic to aquatic life.  
100 - 10 ppm (fish) 96-hours TLM LC50

**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**UN/NA#:** Not Available**DOT Subsidiary Hazard Class:** 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: 2.2 (6.1)  
UN number: UN1950

International:

ICAO/IATA  
UN number: UN1950  
Shipping Name: Aerosols  
Class: 2.2 (6.1)

IMDG  
UN number: UN1950  
Shipping Name: Aerosols  
Class: 2.2  
EmS: F-D, S-U

**XV. Regulatory Information:**

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USA TSCA: All chemicals used are listed on the TSCA Inventory.  
 CERCLA RQ: Tetrachloroethylene: 100 lbs  
 SARA 302: Not listed as a Extremely Hazardous Substance  
 SARA 311/312 HAZARD CLASS: Acute, Chronic  
 SARA 313 REPORTABLE:  
 Tetrachloroethylene 127-18-4  
 Aliphatic Hydrocarbon 8052-41-3

PROPOSITION 65 WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects and other reproductive harm.

New Jersey RTK  
 Tetrachloroethylene 127-18-4  
 Aliphatic Hydrocarbon 8052-41-3  
 1,2,4-Trimethylbenzene 95-63-6  
 1,3,5-Trimethylbenzene 108-67-8  
 Xylene 1330-20-7

Pennsylvania RTK  
 Aliphatic Hydrocarbon 8052-41-3  
 1,2,4-Trimethylbenzene 95-63-6  
 Xylene 1330-20-7

**XVI. Other Information:**

**Chemical State:**     Liquid     Gas     Solid

**Chemical Type:**     Pure     Mixture

**Hazard Category:**

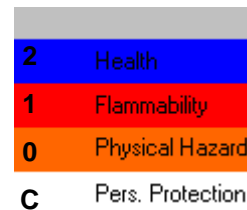
Acute             Chronic             Fire

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!**



**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.