

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH MULTI-PURPOSE GREASE**

MSDS No.: GR010

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 MULTI-PURPOSE GREASE**MSDS No.:** GR010**Issue Date:** 12/16/2010**Supersedes Date:** Not Available**II. Hazards Identification:****EMERGENCY OVERVIEW**

CAUTION: HARMFUL IF SWALLOWED. EYE AND SKIN IRRITANT

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 and ingestion

Health Hazards (Acute and Chronic):

Exposure to vapors generated at high temperatures may cause respiratory irritation.

Signs and Symptoms:

None known

Medical Conditions Generally Aggravated by Exposure:

None known

Other Health Warnings:

Vomiting and subsequent aspiration of the product 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
Calcium dodecylbenzenesulfonate	26264-06-2	0.1 - 1.0	
Carbon black	1333-86-4	0.1 - 1.0	
Dialkyldithiocarbamate	15890-25-2	< 0.1	
Lithium soap and base thickeners	Proprietary	10.0 - 30.0	
Lubricating Base Oils	Mixture	60.0 - 100.0	
Zinc Alkly Dithiophosphate	68649-42-3	0.1 - 1.0	

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

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

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

Inhalation: Move victim 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. Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal.

Note to Physicians:

N/D

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Carbon dioxide, Foam, Dry Chemical and water fog

Unsuitable Extinguishing Media:

Class A type extinguishers.

Products of Combustion:

Oxides of: Carbon

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes.

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:

Keep product out of sewers and watercourses.

Methods for Containment:

Will not flow.

Methods for Cleanup:

Using a scoop, place contaminated material into an approved chemical waste container.

Other Information:

Notify authorities if product has entered or may enter sewer, watercourses or extensive land areas.

VII. Handling and Storage:

Handling Precautions:

Ventilate well, avoid breathing vapors. Keep away from heat, sparks and open flame. Slip hazard. Avoid spilling, skin and eye contact. Keep away from children and animals. Keep lid closed when not in use.

Storage Precautions:

Store separate from strong acids and oxidizers. Keep away from heat, spark and open flame.

VIII. Exposure Controls/Personal Protection:

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Lubricating Base Oils	5 mg/m3	5 mg/m3	Not Available
Calcium dodecylbenzenesulfonate	N/D	N/D	Not Available
Lithium soap and base thickeners	N/D	N/D	Not Available
Dialkyldithiocarbamate	0.5 mg/m3	0.5 mg/m3	Not Available
Zinc Alkly Dithiophosphate	N/D	N/D	Not Available
Carbon black	3.5 mg/m3	3.5 mg/m3	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 goggles, gloves, and apron.

IX. Physical and Chemical Properties:**Boiling Point:** N/D**Boiling Range:** N/D**Solubility In Water:** Insoluble in water**Flash Point:** 435°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):** 0.89**Other Information:** Volatile by volume: <1.0% (ASTM D 2369)**Melting Point:** N/D**Freezing Point:** N/D**Evaporation Rate (Butyl Acetate = 1):** < 0.01**Flash Point Method:** COC**Appearance and Odor:** Black Grease with mild petroleum odor**Vapor Pressure (mm Hg.):** 0.1 mmHg @ 20°F**Partition Coefficient:** N/C**Auto-Ignition Temp:** N/D**Upper Explosive Limit:** N/D**X. Stability and Reactivity:****Stability:**

Normally Stable

Conditions to Avoid:

Avoid contact with acids and oxidizing substances

Incompatible Materials:

Acids and oxidizers

Hazardous Decomposition Products:

Oxides of carbon

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

N/D

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N/D

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in a recycling center when empty. Before offering for recycling, empty the can by using the product according to the label. Do not dump into sewers, on the ground, or into any body of water. 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 Shipping Name: Not DOT regulated.

DOT Hazard Class: None

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

ICAO/IATA (US): Not regulated

International:

ICAO/IATA: Not regulated

IMDG: Not regulated

XV. Regulatory Information:

Sara 313 Reportable Chemicals:
Zinc Alkyl Dithiophosphate 68649-42-3

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

State RTK Chemicals:

Calcium dodecylbenzenesulfonate 26264-06-2

Warning: This product may contain the following chemicals considered by the State of California as causing cancer or reproductive toxicity.

Carbon Black 1333-86-4

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:

1	Health
1	Flammability
0	Physical Hazard
B	Pers. Protection

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