

**MSDS - Material Safety Data Sheet****Product Name: LIQUID WRENCH HIGH TEMPERATURE DISC & DRUM BRAKE WHEEL BEARING GREASE**

MSDS No.: GR012

**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:** RMPDC (877-740-5015)**Country:****Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** LIQUID WRENCH HIGH TEMPERATURE DISC & DRUM BRAKE WHEEL BEARING GREASE**MSDS No.:** GR012**Issue Date:** 12/17/2010**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
Lubricating Base Oils	Mixture	60.0 - 100.0	
Polyurea Thickener	Proprietary	7.0 - 13.0	

**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 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.

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**Note to Physicians:**

N/D

#### ***V. Fire Fighting Measures:***

**Suitable Extinguishing Media:**

Carbon dioxide, Foam, Water fog and Dry Chemical

**Unsuitable Extinguishing Media:**

Class A type extinguishers.

**Products of Combustion:**

Oxides of: Carbon, Sulfur and Nitrogen. Acid smoke/fumes. Aldehydes and other products of incomplete combustion

**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:***

<b>Chemical Name</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Other Limits</b>
Lubricating Base Oils	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Not Available
Polyurea Thickener	N/D	N/D	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.

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**IX. Physical and Chemical Properties:**

Boiling Point: N/D

Boiling Range: N/D

Solubility In Water: Insoluble in water

Flash Point: 410°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: N/D

Melting Point: N/D

Freezing Point: N/D

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

Flash Point Method: COC

Appearance and Odor: Blue green grease with mild petroleum odor

Vapor Pressure (mm Hg.): N/D

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, nitrogen and sulfur. Acid smoke/fumes. Aldehydes and other products of incomplete combustion

**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 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

**Transportation Information:**

DOT Subsidiary Hazard Class: Not Available

Packing Group: Not Available

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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:  
 None

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

State RTK Chemicals:  
 None

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

**XVI. Other Information:**

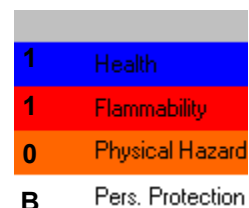
**Chemical State:**     Liquid     Gas     Solid  
**Chemical Type:**     Pure     Mixture  
**Hazard Category:**  
                           Acute     Chronic     Fire  
                           Pressure     Reactive



**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.