



Prepared according to 29CFR 1910.1200.

<b>1</b>	<b>Chemical Product and Company Identification</b>
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**THE LUBRIZOL CORPORATION**  
**29400 LAKELAND BOULEVARD**  
**WICKLIFFE, OH 44092-2298**  
**PHONE: (440)943-1200**

<b>Product Trade Name</b>	LUBRIZOL® 539D, 00778
<b>CAS Number</b>	Confidential.
<b>Synonyms</b>	None.
<b>Generic Chemical Name</b>	Tall oil fatty acid
<b>Product Type</b>	Multipurpose.
<b>Preparation/Revision Date</b>	11 January 2011
<b>Transportation Emergency Phone No.</b>	FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)
<b>MSDS No.</b>	2604769-2118011-2010111-102103

<b>2</b>	<b>Hazards Identification</b>
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<b>Appearance</b>	Clear yellow liquid.
<b>Odor</b>	Mild
<b>Principal Hazards</b>	<ul style="list-style-type: none"> <li>This material has no known health hazards.</li> </ul>

See Section 11 for complete health hazard information.

<b>3</b>	<b>Composition/Information on Ingredients</b>
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<b>Hazardous Ingredients</b>	This material has no known hazards under applicable laws.
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<b>4</b>	<b>First Aid Measures</b>
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<b>Eyes</b>	Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.
<b>Skin</b>	Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
<b>Inhalation</b>	Remove exposed person to fresh air if adverse effects are observed.
<b>Oral</b>	DO NOT INDUCE VOMITING. Get immediate medical attention.
<b>Additional Information</b>	Note to physician: Treat symptomatically.

<b>5</b>	<b>Fire Fighting Measures</b>
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<b>Flash Point</b>	204 °C, 399.2 °F COC (Typical)
<b>Extinguishing Media</b>	CO <sub>2</sub> , dry chemical, or foam. Water can be used to cool and protect exposed material.
<b>Firefighting Procedures</b>	Recommend wearing self-contained breathing apparatus. Treat as an oil fire. Water may cause splattering.
<b>Unusual Fire &amp; Explosion Hazards</b>	See section 10 for additional information.

<b>6</b>	<b>Accidental Release Measures</b>
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<b>Spill Procedures</b>	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.
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<b>7</b>	<b>Handling and Storage</b>
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<b>Pumping Temperature</b>	Not determined.
<b>Maximum Handling Temperature</b>	Not determined.
<b>Handling Procedures</b>	Keep containers closed when not in use. Porous materials, such as rags and sawdust may be subject to spontaneous

combustion after becoming wetted with this product. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

<b>Maximum Storage Temperature</b>	Not determined.
<b>Storage Procedures</b>	See section 10 for incompatible materials.
<b>Loading Temperature</b>	Ambient

<b>8</b>	<b>Exposure Controls/Personal Protection</b>
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<b>Exposure Limits</b>	None established
<b>Other Exposure Limits</b>	None known.
<b>Engineering Controls</b>	Use with adequate ventilation.
<b>Gloves Procedures</b>	Rubber.
<b>Eye Protection</b>	Safety Glasses.
<b>Respiratory Protection</b>	Use NIOSH/MSHA approved respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
<b>Clothing Recommendation</b>	Long sleeve shirt is recommended. Launder contaminated clothing before reuse.

<b>9</b>	<b>Physical and Chemical Properties</b>
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<b>Flash Point</b>	204 °C, 399.2 °F COC (Typical)
<b>Upper Flammable Limit</b>	Not determined.
<b>Lower Flammable Limit</b>	Not determined.
<b>Autoignition Point</b>	Not determined.
<b>Explosion Data</b>	Material does not have explosive properties.
<b>Vapor Pressure</b>	Not determined.
<b>pH</b>	Not determined.
<b>Specific Gravity</b>	0.9 (25 °C)
<b>Bulk Density</b>	Not determined.
<b>Water Solubility</b>	Insoluble.
<b>Percent Solid</b>	Not determined.
<b>Percent Volatile</b>	Not determined.
<b>Volatile Organic Compound</b>	Not determined.
<b>Vapor Density</b>	Not determined.
<b>Evaporation Rate</b>	Not determined.
<b>Odor</b>	Mild
<b>Appearance</b>	Clear yellow liquid.
<b>Viscosity</b>	10 Centistokes (50 °C)
<b>Odor Threshold</b>	Not determined.
<b>Boiling Point</b>	286 °C, 546.8 °F(Typical)
<b>Pour Point Temperature</b>	Not determined.
<b>Melting / Freezing Point</b>	-7 °C, 19.4 °F

*The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.*

<b>10</b>	<b>Stability and Reactivity</b>
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<b>Stability</b>	Material is normally stable at moderately elevated temperatures and pressures.
<b>Decomposition Temperature</b>	Not determined.
<b>Incompatibility</b>	Strong alkalis. Reducing agents. Strong oxidizing agents.
<b>Polymerization</b>	Will not occur.
<b>Thermal Decomposition</b>	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.
<b>Conditions to Avoid</b>	Not determined.

<b>11</b>	<b>Toxicological Information</b>
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**-- ACUTE EXPOSURE --**

<b>Eye Irritation</b>	Not expected to cause eye irritation. Based on data from components or similar materials.
<b>Skin Irritation</b>	Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
<b>Respiratory Irritation</b>	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the

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<b>Dermal Toxicity</b>	upper respiratory tract. Based on data from components or similar materials.
<b>Inhalation Toxicity</b>	The LD50 in rabbits is > 2000 mg/Kg. Based on data from similar materials.
<b>Oral Toxicity</b>	No data available to indicate product or components may be a toxic inhalation hazard.
<b>Dermal Sensitization</b>	The LD50 in rats is > 5000 mg/Kg. Based on data from similar materials.
<b>Inhalation Sensitization</b>	Not expected to cause skin sensitization. Based on data from components or similar materials.
	No data available to indicate product or components may be respiratory sensitizers.

### -- CHRONIC EXPOSURE --

<b>Chronic Toxicity</b>	No data available to indicate product or components present at greater than 1% are chronic health hazards.
<b>Carcinogenicity</b>	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductive Toxicity</b>	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
<b>Teratogenicity</b>	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

### -- ADDITIONAL INFORMATION --

<b>Other</b>	No other health hazards known.
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<b>12</b>	<b>Ecological Information</b>
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### -- ENVIRONMENTAL TOXICITY --

<b>Freshwater Fish Toxicity</b>	The acute LC50 is > 1000 mg/L based on similar materials.
<b>Freshwater Invertebrates Toxicity</b>	The acute EC50 is > 1000 mg/L based on similar materials.
<b>Algal Inhibition</b>	The acute EC50 is > 1000 mg/L based on similar materials.
<b>Saltwater Fish Toxicity</b>	Not determined.
<b>Saltwater Invertebrates Toxicity</b>	Not determined.
<b>Bacteria Toxicity</b>	Not determined.
<b>Miscellaneous Toxicity</b>	Not determined.

### -- ENVIRONMENTAL FATE --

<b>Biodegradation</b>	This product will biodegrade very rapidly based on OECD 301-type test data for similar products. Meets ready biodegradation criteria.
<b>Bioaccumulation</b>	This material potentially bioconcentrates, based on experimental octanol/water coefficient data.
<b>Soil Mobility</b>	Not determined.

<b>13</b>	<b>Disposal Considerations</b>
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<b>Waste Disposal</b>	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.
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<b>14</b>	<b>Transport Information</b>
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<b>ICAO/IATA I</b>	Not regulated.
<b>ICAO/IATA II</b>	Not regulated.
<b>IMDG</b>	Not regulated.
<b>IMDG EMS Fire</b>	Not applicable.
<b>IMDG EMS Spill</b>	Not applicable.
<b>IMDG MFAG</b>	Not applicable.
<b>MARPOL Annex II</b>	Not determined.
<b>USCG Compatibility</b>	Not determined.
<b>U.S. DOT Bulk</b>	Not regulated.
<b>DOT NAERG</b>	Not applicable.
<b>U.S. DOT (Intermediate)</b>	Not regulated.
<b>U.S. DOT Intermediate NAERG</b>	Not applicable.
<b>U.S. DOT Non-Bulk</b>	Not regulated.
<b>U.S. DOT Non-Bulk NAERG</b>	Not applicable.
<b>Canada</b>	Not regulated.
<b>Mexico</b>	Not regulated.
<b>Bulk Quantity</b>	85000 KG, 187391 lbs.
<b>Intermediate Quantity</b>	11000 KG, 24251 lbs.
<b>Non-Bulk Quantity</b>	400 KG, 882 lbs.

*Review classification requirements before shipping materials at elevated temperatures.*

15	<b>Regulatory Information</b>
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**-- Global Chemical Inventories --**

<b>USA</b>	All components of this material are on the US TSCA Inventory or are exempt.
<b>Other TSCA Reg.</b>	None known.
<b>EU</b>	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
<b>Japan</b>	All components are in compliance with the Chemical Substances Control Law of Japan.
<b>Australia</b>	All components are in compliance with chemical notification requirements in Australia.
<b>New Zealand</b>	All components are in compliance with chemical notification requirements in New Zealand.
<b>Canada</b>	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
<b>Switzerland</b>	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
<b>Korea</b>	All components are in compliance in Korea.
<b>Philippines</b>	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
<b>China</b>	All components of this product are listed on the Inventory of Existing Chemical Substances in China.

**-- Other U.S. Federal Regulations --**

<b>SARA Ext. Haz. Subst.</b>	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.								
<b>SARA Section 313</b>	This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.								
<b>SARA 311 Classifications</b>	<table border="1"> <tr> <td>Acute Hazard</td> <td>No</td> </tr> <tr> <td>Chronic Hazard</td> <td>No</td> </tr> <tr> <td>Fire Hazard</td> <td>No</td> </tr> <tr> <td>Reactivity Hazard</td> <td>No</td> </tr> </table>	Acute Hazard	No	Chronic Hazard	No	Fire Hazard	No	Reactivity Hazard	No
Acute Hazard	No								
Chronic Hazard	No								
Fire Hazard	No								
Reactivity Hazard	No								
<b>CERCLA Hazardous Substances</b>	None known.								

**-- State Regulations --**

<b>Cal. Prop. 65</b>	This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.
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**-- Product Registrations --**

<b>U.S. Fuel Registration</b>	This fuel additive is registered in the United States.
<b>Finnish Registration Number</b>	Not Registered
<b>Swedish Registration Number</b>	Not Registered
<b>Norwegian Registration Number</b>	Not Registered
<b>Danish Registration Number</b>	Not Registered
<b>Swiss Registration Number</b>	Not Registered
<b>Italian Registration Number</b>	Not Registered

**-- Other / International --**

<b>Miscellaneous Regulatory Information</b>	Not determined.
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16	<b>Other Information</b>
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<b>US NFPA Codes</b>	<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>	<b>Special</b>
	0	1	0	N/E

(N/E) - None established

<b>HMIS Codes</b>	<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>
	0	1	0

**Precautionary Labels**

- This material has no known health hazards.

**Revision Indicators**

Section: 11 Respiratory irritation.

Changed: 11 January 2011

*As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.*

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**The Lubrizol Corporation**  
**New Jersey Right-To-Know Composition Information**

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<b>PRODUCT NAME</b>	<b>INGREDIENT NAME</b>	<b>NEW JERSEY TRADE SECRET /CAS NUMBER</b>	<b>PERCENT (RANGE)</b>
LUBRIZOL® 539D	Tall oil fatty acid	61790-12-3	90 - 100%
	Proprietary material	CONF	1 - 4.9%