

1	<b>Substance/Product Identification</b>
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**Red Line Synthetic Oil  
Corporation  
6100 Egret Court  
Benicia, CA 94510  
USA  
Tel: (707) 745-6100**

**Product Trade Name**                    **Red Line Gear Oils, 75W85, 75W90, 75W90NS, 75W140, 75W140NS, 80W140, SuperLight**

**CAS Number**                            Not applicable for mixtures.

**Synonyms**                                None.

**Generic Chemical Name**                Mixture.

**Recommended Use**                      Not determined.

**Restrictions on use**                      Not determined.

**Preparation/Revision Date**            20 February 2013

**Transportation Emergency Phone No.**    FOR TRANSPORT EMERGENCY call (+1) 707-400-0215

2	<b>Hazards Identification</b>
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**Appearance**                            Light colored liquid.

**Odor**                                        Mild

**Classification**                          Not determined.

**Target Organs**                          Not determined.

**Signal Word**                              Not determined.

**Hazard statement**                        Not determined.

**Other Hazards**                          None identified.

*See Section 11 for complete health hazard information.*

3	<b>Composition/Information on Ingredients</b>
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**Hazardous Ingredients**

	Comp	CAS No.	Percentage (by wt.)	Carcinogen
Olefin sulfide		Confidential.	From 1 to 4.9 percent	N/E
Phosphoric acid esters/amine salt		Confidential.	From 1 to 4.9 percent	N/E

4	<b>First Aid Measures</b>
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**Eyes**                                        Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.

**Skin**                                        Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

**Inhalation**                                Remove exposed person to fresh air if adverse effects are observed.

**Ingestion**                                DO NOT INDUCE VOMITING. Get immediate medical attention.

**Advice for the protection of first-aid providers**    When providing first aid always protect yourself against exposure to chemicals or blood born diseases by wearing gloves, masks and eye protection. After providing first aid wash your exposed skin with soap and water.

**Additional Information**                Note to physician: Treat symptomatically.

5	<b>Fire Fighting Measures</b>
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**Flash Point**                                 $\geq 165$  °C, 329 °F COC (Minimum)

**Extinguishing Media**                    CO<sub>2</sub>, dry chemical, or foam. Water can be used to cool and protect exposed material.

**Unsuitable Extinguishing Media**        Not determined.

**Firefighting Procedures**                Recommend wearing self-contained breathing apparatus. Treat as an oil fire. Water may cause splattering.

**Unusual Fire & Explosion Hazards**    See section 10 for additional information.

6	<b>Accidental Release Measures</b>
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<b>Personal precaution, protective equipment and emergency procedures</b>	Personal protective equipment must be worn. Ventilate area if spilled in a confined space or other poorly ventilated area.
<b>Environmental precaution and protective procedures.</b>	Prevent entry into sewers and waterways.
<b>Methods for clean-up and removal</b>	Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

<b>7</b>	<b>Handling and Storage</b>
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<b>Pumping Temperature</b>	Not determined.
<b>Maximum Handling Temperature</b>	70 °C, 158 °F
<b>Handling Procedures</b>	Keep containers closed when not in use. 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>	45 °C, 113 °F
<b>Storage Procedures</b>	Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 deg F (45 deg C) for extended periods of time or if heat sources in excess of 250 deg F (121 deg C) are used. See section 10 for incompatible materials.
<b>Maximum Loading Temperature</b>	70 °C, 158 °F

<b>8</b>	<b>Exposure Controls/Personal Protection</b>
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<b>Exposure Limits</b>	<p><b>EU</b> Not applicable.</p> <p><b>UK</b> Not applicable.</p>
<b>Other Exposure Limits</b>	Contains hydrocarbon oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH TWA of 5 mg per cubic meter.
<b>Engineering Controls</b>	Use with adequate ventilation.
<b>Personal Protective Equipment</b>	
<b>Respiratory Protection</b>	Use 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>Eye Protection</b>	Safety Glasses.
<b>Gloves Procedures</b>	Nitrile.
<b>Clothing Recommendation</b>	Long sleeve shirt is recommended. Launder contaminated clothing before reuse.
<b>Hygiene Measures</b>	Wash thoroughly after handling this product.

<b>9</b>	<b>Physical and Chemical Properties</b>
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<b>Flash Point</b>	>= 165 °C, 329 °F COC (Minimum)
<b>Upper Flammable Limit</b>	Not determined.
<b>Lower Flammable Limit</b>	Not determined.
<b>Autoignition Point</b>	354 °C, 669.2 °F
<b>Decomposition Temperature</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>	0.89 (15.6 °C)
<b>Bulk Density</b>	Not determined.
<b>Water Solubility</b>	Insoluble.
<b>Percent Solid</b>	Not determined.

## Red Line Gear Oils

Percent Volatile	Not determined.
Volatile Organic Compound	Not determined.
Vapor Density	Not determined.
Evaporation Rate	Not determined.
Water/Octanol Coefficient	Not determined.
Odor	Mild
Odor Threshold	Not determined.
Appearance	Light colored liquid.
Viscosity	25-250 cSt (40 °C) 5-30 cSt (100 °C)
Boiling Point	Not determined.
Boiling Point Range	Not determined.
Pour Point Temperature	-40 °C, -40 °F
Melting / Freezing Point	Not determined.

*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 room temperature and pressure. See the Handling and Storage Section for further details.
<b>Decomposition Temperature</b>	Not determined.
<b>Incompatibility</b>	Oxidizing agents.
<b>Polymerization</b>	Will not occur.
<b>Thermal Decomposition</b>	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Under combustion conditions, oxides of the following elements will be formed: sulfur.
<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 upper respiratory tract. Based on data from components or similar materials.
<b>Dermal Toxicity</b>	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
<b>Inhalation Toxicity</b>	No data available to indicate product or components may be a toxic inhalation hazard.
<b>Oral Toxicity</b>	The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials.
<b>Dermal Sensitization</b>	No data available to indicate product or components may be a skin sensitizer.
<b>Inhalation Sensitization</b>	No data available to indicate product or components may be respiratory sensitizers.
<b>Aspiration Hazard</b>	Not determined.

– 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>	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
<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 100 - 1000 mg/L based on component data.
<b>Freshwater Invertebrates Toxicity</b>	Chronic effects expected at 10 - 100 mg/L based on component data.
<b>Algal Inhibition</b>	Not determined.

## Red Line Gear Oils

Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	Not determined.
Miscellaneous Toxicity	Not determined.

### – ENVIRONMENTAL FATE –

<b>Biodegradation</b>	At least 25% of the components in this product show limited biodegradation based on OECD 301-type test data.
<b>Bioaccumulation</b>	1 - 10% of the components potentially bioconcentrate, based on octanol/water coefficients.
<b>Soil Mobility</b>	Not determined.
<b>Notes</b>	None known.

<b>13</b>	<b>Disposal Considerations</b>
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<b>Disposal Considerations</b>	All disposal practices must be in accordance with local, regional, national and international regulations.
<b>Contaminated Containers or Packaging</b>	Dispose of packaging or containers in accordance with local, regional, national and international regulations.

<b>14</b>	<b>Transport Information</b>
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ICAO/IATA I	Not regulated.
ICAO/IATA II	Not regulated.
IMDG	Not regulated.
IMDG EMS Fire	Not applicable.
IMDG EMS Spill	Not applicable.
IMDG MFAG	Not applicable.
MARPOL Annex II	Not determined.
USCG Compatibility	Not determined.
DOT NAERG	Not applicable.

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

<b>15</b>	<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.
<b>Taiwan</b>	All components of this product are listed on the Taiwan inventory.
<b>Miscellaneous Regulatory Information</b>	Not determined.

### – 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 –

# Red Line Gear Oils

Cal. Prop. 65

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.

## – Product Registrations –

U.S. Fuel Registration Not applicable.

## – Other / International –

Miscellaneous Regulatory Information Not determined.

16	Other Information
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Issuing Department Product Safety and Compliance Department (707-745-6100)

Preparation/Revision Date 4 March 2013

US NFPA Codes

Health	Fire	Reactivity	Special
1	1	0	N/E

HMIS Codes

Health	Fire	Reactivity
0	1	0

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