1 Chemical Product and Company Identification

Red Line Synthetic Oil Corp  
6100 Egret Court  
Benicia, CA 94510 USA  
Tel: (707) 745-6100

Product Trade Name Red Line SI-1, SI-2, & Fuel System Cleaner for Motorcycles  
CAS Number Mixture  
Synonyms None  
Generic Chemical Name Polyether amine  
Product Type Multipurpose  
Revision Date 4 March 2013  
Transportation Emergency Phone No. FOR TRANSPORT EMERGENCY call (+1) 707-400-0215

2 Hazards Identification

Appearance Reddish colored liquid  
Odor Ammonia  
Principal Hazards Caution  
- May cause eye irritation.  
- May cause respiratory tract irritation.

See Section 11 for complete health hazard information.

3 Composition/Information on Ingredients

Hazardous Ingredients

<table>
<thead>
<tr>
<th>Comp</th>
<th>CAS No.</th>
<th>Percentage (by wt.)</th>
<th>Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether amine</td>
<td>Confidential</td>
<td>From 30 to 39.9 percent</td>
<td>N/E</td>
</tr>
</tbody>
</table>

(N/E) - None established

4 First Aid Measures

Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

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. Call a poison center or doctor if exposed or you feel unwell.

Oral DO NOT INDUCE VOMITING. Get immediate medical attention.

Additional Information Note to physician: Treat symptomatically.

5 Fire Fighting Measures

Flash Point 177 °C, 350 °F PMCC (Typical)

Extinguishing Media CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.

Firefighting Procedures Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Water may cause splattering.

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

6 Accidental Release Measures

Spill Procedures Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Take precautions
to avoid release to the environment. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

### 7 Handling and Storage

<table>
<thead>
<tr>
<th>Pumping Temperature</th>
<th>Not determined.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Handling Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Handling Procedures</td>
<td>Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid breathing dust, fume, gas, mist, vapors or spray. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition. Dispose of packaging or containers in accordance with local, regional, national and international regulations.</td>
</tr>
<tr>
<td>Maximum Storage Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Storage Procedures</td>
<td>Take precautions to avoid release to the environment. See section 10 for incompatible materials.</td>
</tr>
<tr>
<td>Maximum Loading Temperature</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

### 8 Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Exposure Limits</th>
<th>None established</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Exposure Limits</td>
<td>None known.</td>
</tr>
<tr>
<td>Engineering Controls</td>
<td>Use material in well ventilated area only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.</td>
</tr>
<tr>
<td>Gloves Procedures</td>
<td>Use nitrile or neoprene gloves.</td>
</tr>
<tr>
<td>Eye Protection</td>
<td>Safety Glasses.</td>
</tr>
<tr>
<td>Respiratory Protection</td>
<td>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.</td>
</tr>
<tr>
<td>Clothing Recommendation</td>
<td>Long sleeve shirt is recommended. Launder contaminated clothing before reuse.</td>
</tr>
</tbody>
</table>

### 9 Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>177 °C, 350 °F PMCC (Typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Flammable Limit</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Autoignition Point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Explosion Data</td>
<td>Material does not have explosive properties.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.9 (15.6 °C)</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>7.5 Lb/gal, 0.9 Kg/L</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble.</td>
</tr>
<tr>
<td>Percent Solid</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Volatile Organic Compound</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Odor</td>
<td>Ammonia</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear reddish colored liquid.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&gt;22 Centistokes (40 °C)</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Pour Point Temperature</td>
<td>-45 °C, -49 °F</td>
</tr>
<tr>
<td>Melting / Freezing Point</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

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

### 10 Stability and Reactivity

| Stability | Material is normally stable at moderately elevated temperatures and pressures. |
| Decomposition Temperature | Not determined. |
| Incompatibility | Strong acids. Oxidizing agents. |
| Polymerization | Will not occur. |
Red Line SI-1, SI-2

Thermal Decomposition
Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Ammonia may be formed on burning in limited air supply. Propylamine, polyalkylglycols, and aliphatic alcohols may also be released.

Conditions to Avoid
Not determined.

11  Toxicological Information

-- ACUTE EXPOSURE --

Eye Irritation
May cause eye irritation. Does not meet Canadian D2B or EU R36 criteria. Based on data from components or similar materials.

Skin Irritation
Not expected to be a primary skin irritant. Based on data from components or similar materials.

Respiratory Irritation
May cause nose, throat, and lung irritation. Based on data from components or similar materials.

Dermal Toxicity
The LD50 in rabbits is > 2000 mg/Kg. Based on data from similar materials.

Inhalation Toxicity
No data available to indicate product or components may be a toxic inhalation hazard.

Oral Toxicity
The LD50 in rats is > 5000 mg/Kg. Based on data from similar materials. Swallowing this material causes severe irritation of the mouth, esophagus and stomach.

Dermal Sensitization
Not expected to cause skin sensitization. Based on data from components or similar materials.

Inhalation Sensitization
No data available to indicate product or components may be respiratory sensitzers.

-- CHRONIC EXPOSURE --

Chronic Toxicity
No data available to indicate product or components present at greater than 1% are chronic health hazards.

Carcinogenicity
No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

Mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity
No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

Teratogenicity
No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

-- ADDITIONAL INFORMATION --

Other
No other health hazards known.

12  Ecological Information

-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity
The acute LC50 is 1 - 10 mg/L based on actual data.

Freshwater Invertebrates Toxicity
Not determined.

Algal Inhibition
The acute EC50 is 10 - 100 mg/L based on actual data.

Saltwater Fish Toxicity
Not determined.

Saltwater Invertebrates Toxicity
Not determined.

Bacteria Toxicity
Not determined.

Miscellaneous Toxicity
Not determined.

-- ENVIRONMENTAL FATE --

Biodegradation
This product shows limited biodegradation based on OECD 301-type test data for similar products.

Bioaccumulation
This material displays no potential to bioconcentrate.

Soil Mobility
Not determined.

13  Disposal Considerations

Waste Disposal
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.

14  Transport Information

ICAO/IATA I
Not regulated.

ICAO/IATA II
UN3082 Environmentally hazardous substance, liquid, n.o.s. (Polyether amine) , 9 , III , Marine Pollutant (Polyether amine)

IMDG
UN3082 Environmentally hazardous substance, liquid, n.o.s. (Polyether amine) , 9 , III , Marine Pollutant (Polyether amine)

IMDG EMS Fire
F-A

IMDG EMS Spill
S-F

IMDG MFAG
None

MARPOL Annex II
Not determined.

USCG Compatibility
Not determined.

U.S. DOT Bulk
UN3082 Environmentally hazardous substance, liquid, n.o.s. (Polyether amine) 9 , III, Marine Pollutant (Polyether amine)

DOT NAERG
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U.S. DOT (Intermediate)
UN3082 Environmentally hazardous substance, liquid, n.o.s. (Polyether amine) 9 , III, Marine Pollutant (Polyether amine)

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| U.S. DOT Intermediate NAERG | 171 |
| U.S. DOT Non-Bulk | Not regulated. |
| U.S. DOT Non-Bulk NAERG | Not applicable. |
| Canada | UN3082 Environmentally hazardous substance, liquid, n.o.s. (Polyether amine), 9, III, Marine Pollutant (Polyether amine) |
| Mexico | UN3082 Environmentally hazardous substance, liquid, n.o.s. (Polyether amine), 9, III, Marine Pollutant (Polyether amine) |

Review classification requirements before shipping materials at elevated temperatures.

| 15 | Regulatory Information |

-- Global Chemical Inventories --

USA

All components of this material are on the US TSCA Inventory or are exempt.

Other TSCA Reg.

None known.

EU

All components are in compliance with the EC Seventh amendment Directive 92/32/EEC.

Japan

All components are in compliance with the Chemical Substances Control Law of Japan.

Australia

All components are in compliance with chemical notification requirements in Australia.

New Zealand

All components are in compliance with chemical notification requirements in New Zealand.

China

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

-- Other U.S. Federal Regulations --


This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

SARA Section 313

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.

SARA 311 Classifications

| Acute Hazard | No |
| Chronic Hazard | No |
| Fire Hazard | No |
| Reactivity Hazard | No |

CERCLA Hazardous Substances

None known.

-- State Regulations --

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

This fuel additive is registered in the United States.

-- Other / International --

Miscellaneous Regulatory Information

Not determined.

| 16 | Other Information |

US NFPA Codes

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
<td>N/E</td>
</tr>
</tbody>
</table>

(N/E) - None established

HMIS Codes

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>
Precautionary Labels

Caution.

- May cause eye irritation.
- May cause respiratory tract irritation.

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.