

1	Chemical Product and Company Identification
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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
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Appearance	Reddish colored liquid.
Odor	Ammonia
Principal Hazards	Caution. <ul style="list-style-type: none"> • May cause eye irritation. • May cause respiratory tract irritation.

See Section 11 for complete health hazard information.

3	Composition/Information on Ingredients
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Hazardous Ingredients

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Polyether amine	Confidential.	From 30 to 39.9 percent	N/E

(N/E) - None established

4	First Aid Measures
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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
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Flash Point	177 °C, 350 °F PMCC (Typical)
Extinguishing Media	CO ₂ , 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
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Spill Procedures	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Take precautions
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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
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Pumping Temperature	Not determined.
Maximum Handling Temperature	Not determined.
Handling Procedures	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.
Maximum Storage Temperature	Not determined.
Storage Procedures	Take precautions to avoid release to the environment. See section 10 for incompatible materials.
Maximum Loading Temperature	Not determined.

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

9	Physical and Chemical Properties
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Flash Point	177 °C, 350 °F PMCC (Typical)
Upper Flammable Limit	Not determined.
Lower Flammable Limit	Not determined.
Autoignition Point	Not determined.
Explosion Data	Material does not have explosive properties.
Vapor Pressure	Not determined.
pH	Not determined.
Specific Gravity	0.9 (15.6 °C)
Bulk Density	7.5 Lb/gal, 0.9 Kg/L
Water Solubility	Insoluble.
Percent Solid	Not determined.
Percent Volatile	Not determined.
Volatile Organic Compound	Not determined.
Vapor Density	Not determined.
Evaporation Rate	Not determined.
Odor	Ammonia
Appearance	Clear Reddish colored liquid.
Viscosity	>22 Centistokes (40 °C)
Odor Threshold	Not determined.
Boiling Point	Not determined.
Pour Point Temperature	-45 °C, -49 °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.

10	Stability and Reactivity
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Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	Strong acids. Oxidizing agents.
Polymerization	Will not occur.

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
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-- 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 sensitizers.

-- 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
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-- 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
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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
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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 171

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

Red Line SI-1, SI-2

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
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– 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.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China.

– Other U.S. Federal Regulations –

SARA Ext. Haz. Subst.	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	<table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 2px;">Acute Hazard</td> <td style="padding: 2px; text-align: center;">No</td> </tr> <tr> <td style="padding: 2px;">Chronic Hazard</td> <td style="padding: 2px; text-align: center;">No</td> </tr> <tr> <td style="padding: 2px;">Fire Hazard</td> <td style="padding: 2px; text-align: center;">No</td> </tr> <tr> <td style="padding: 2px;">Reactivity Hazard</td> <td style="padding: 2px; text-align: center;">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								
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.
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– Product Registrations –

U.S. Fuel Registration	This fuel additive is registered in the United States.
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– Other / International –

Miscellaneous Regulatory Information	Not determined.
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16	Other Information
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US NFPA Codes	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <th style="padding: 2px;">Health</th> <th style="padding: 2px;">Fire</th> <th style="padding: 2px;">Reactivity</th> <th style="padding: 2px;">Special</th> </tr> <tr> <td style="padding: 2px;">1</td> <td style="padding: 2px;">1</td> <td style="padding: 2px;">0</td> <td style="padding: 2px;">N/E</td> </tr> </table>	Health	Fire	Reactivity	Special	1	1	0	N/E
Health	Fire	Reactivity	Special						
1	1	0	N/E						

(N/E) - None established

HMIS Codes	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <th style="padding: 2px;">Health</th> <th style="padding: 2px;">Fire</th> <th style="padding: 2px;">Reactivity</th> </tr> <tr> <td style="padding: 2px;">1</td> <td style="padding: 2px;">1</td> <td style="padding: 2px;">0</td> </tr> </table>	Health	Fire	Reactivity	1	1	0
Health	Fire	Reactivity					
1	1	0					

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.