

## MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME: **RED LINE SI-1**

PRODUCT TYPE: Gasoline fuel injector cleaner and valve detergent

REVISION DATE: April 18, 2008

CHEMICAL NAME: Mixture

NFPA CODE: Health: 2 Fire: 2 Reactivity: 0

### SECTION 1 - HAZARDOUS INGREDIENTS

This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA, IARC Monographs, or National Toxicology program at a concentration > 0.1%.

30 - 50% PolyEther Amine

1-10% Isooctanol - TLV- None established CAS # 104-76-7

5-20% Aliphatic Naphtha - TWA - 100 ppm - CAS # 64742-88-7

### SECTION 2 - FIRE AND EXPLOSION HAZARDS

FLASH POINT: 250°F (121°C)  
UPPER FLAMMABLE LIMIT: Not Determined.  
LOWER FLAMMABLE LIMIT: Not Determined.  
EXTINGUISHING MEDIA: CO<sub>2</sub>, dry chemical, foam.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus with full face piece

UNUSUAL FIRE & EXPLOSION HAZARDS: Toxic fumes, gases, or vapors may evolve on burning. Container may rupture on heating.

### SECTION 3 - HEALTH HAZARD DATA

ORAL TOXICITY: LD 50 > 5000 mg/kg in rats. Based on data from components.  
EYE IRRITATION: May cause eye irritation.  
SKIN IRRITATION: May cause skin irritation.  
DERMAL TOXICITY: LD 50 in rabbits is > 2000 mg/kg. Based on data from components.  
INHALATION TOXICITY: No data available to indicate product may be a toxic inhalation hazard.  
OTHER: Nose, throat, and lung irritant. Based on data from components.  
CHRONIC TOXICITY: No data are available to indicate any components present at greater than 1% are a chronic health hazard.  
TLV: None established.

### FIRST AID PROCEDURES

SKIN: Wash well with soap and water. See a physician if irritation persists.  
EYE: Flush well with water for at least 15 minutes.  
INHALATION: Remove to fresh air. See a physician if irritation persists. If breathing has stopped, apply artificial respiration.  
ORAL: Call a physician. Do not induce vomiting. If conscious, give two glasses of water.  
ADDITIONAL: Note to physician. Treat symptomatically.

### SECTION 4 - SPECIAL PROTECTION INFORMATION

VENTILATION PROCEDURE: Mechanical ventilation recommended.  
GLOVES PROTECTION: Neoprene or nitrile rubber gloves recommended.  
EYE PROTECTION: Safety glasses recommended.  
OTHER PROTECTION: NIOSH-approved organic vapor respirator if TLV exceeded. Long-sleeved shirt.

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#### SECTION 5 - PHYSICAL DATA

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VAPOR PRESSURE: Not Determined  
SPECIFIC GRAVITY: 0.89  
VISCOSITY @ 40°C: >19 cSt  
WATER SOLUBILITY: Insoluble  
PERCENT VOLATILE: Not Determined.  
VAPOR DENSITY: Not Determined.  
EVAPORATION RATE: Not Determined.  
ODOR: Strong.  
APPEARANCE: Reddish-colored liquid.

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#### SECTION 6 - STABILITY

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STABILITY: Normally stable at moderately elevated temperatures and pressures.  
INCOMPATIBILITY: Strong oxidizing agents.  
POLYMERIZATION: Will not occur.  
THERMAL DECOMPOSITION: Smoke and oxides of carbon, hydrogen, and nitrogen.

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#### SPILL OR LEAK PROCEDURES

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SPILL PROCEDURES: Ventilate area. Remove sources of ignition. Wear self-contained breathing apparatus, and gloves. Prevent entry into sewers and waterways. Pick up free liquid for recycle/disposal. Absorb small amounts on inert material for disposal.

WASTE DISPOSAL: If disposed of, this material is not believed to be a hazardous waste under RCRA. Waste management should be in compliance with federal, state, and local laws.

CERCLA REPORTING:None.

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#### SPECIAL PRECAUTIONS

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SPECIAL PRECAUTIONS: DO NOT HEAT! Store in a cool (below 120°F), dry, place away from flame. Keep containers closed when not in use. Open container in a well-ventilated area. Remove contaminated clothing and laundry before reuse.

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#### TRANSPORTATION AND LABELING

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DOT PROPER SHIPPING NAME: Not Applicable.  
DOT HAZARD CLASS: Not Applicable.  
DOT ID NUMBER (UN NO.): Not Applicable.  
IMO CLASS: Not Applicable.  
EPA HAZARDOUS SUBSTANCES: Not known to contain >1% of any SARA Extremely Hazardous Substances.  
SARA SECTION 313: None  
U.S. TSCA INVENTORY: All components are included on the U.S. TSCA Inventory.

PRECAUTIONARY LABELS: May cause eye irritation. May cause respiratory tract irritation.

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