

## MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME: **RED LINE SI-2**

PRODUCT TYPE: Gasoline fuel injector and intake valve detergent.

REVISION DATE: July 19, 2001

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%.

10-20% Aliphatic Hydrocarbon Naphtha - TLV = 100 ppm CAS #64742-88-71 Symbol: Xi R38

50-60% Severely Hydrotreated Middle Distillate CAS #64742-46-7 Symbol: Xi R38

1 - 4.9% 1,3,5-Trimethyl Benzene CAS 108-67-81 Symbol: Xi R38

1 - 4.9% 1,2,4-Trimethyl Benzene CAS 95-63-61 Symbol: Xi R38

### SECTION 2 - FIRE AND EXPLOSION HAZARDS

FLASH POINT: 194°F (90°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: Vapors of aliphatic hydrocarbons are heavier than air and may travel to a distant ignition source.

### SECTION 3 - HEALTH HAZARD DATA

ORAL TOXICITY: LD 50 >5000 mg/kg in rats. Based on data from components. Swallowing material may cause irritation of the gastrointestinal lining, , nausea, vomiting, diarrhea, and CNS depression.

EYE IRRITATION: May cause mild eye irritation.

SKIN IRRITATION: May cause mild skin irritation.

DERMAL TOXICITY: LD 50 > 2000 mg/kg in rabbits.

INHALATION TOXICITY: Inhalation of high concentration of vapors may cause irritation of mucous membranes and the upper respiratory tract. Breathing of vapor or mist may aggravate asthma or fibrotic pulmonary disease.

CHRONIC TOXICITY: Repeated overexposure to petroleum naphtha can cause nervous system damage.

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 irritaiton persists. If breathing has stopped, apply artificial respiration.

ORAL: Call a physician. Do not induce vomiting.

ADDITIONAL: None.

### 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: 0.88  
VISCOSITY @ 40°C: 9 cSt  
WATER SOLUBILITY: Insoluble  
PERCENT VOLATILE: Not Determined.  
VAPOR DENSITY: Not Determined.  
EVAPORATION RATE: Not Determined.  
ODOR: Strong.  
APPEARANCE: Amber-colored liquid.

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#### SECTION 6 - STABILITY

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STABILITY: Stable  
INCOMPATIBILITY: Strong oxidizing agents.  
POLYMERIZATION: Will not occur.  
THERMAL DECOMPOSITION: Oxides of carbon, 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 expected to be a hazardous waste under RCRA due to toxicity. Disposal should be in compliance with federal, state, and local laws. If discarding this material, consider the possible relevance of the presence of the following chemicals and the treatment for the associated U.S. EPA RCRA Hazardous Waste Numbers: 0.00003% Benzene, CAS No:71-43-2, D018

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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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SYMBOLS: Xi  
INDICATION OF DANGER: IRRITANT  
PRECAUTIONARY LABELS: R43, R38, S24, S28, S37  
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: None  
U.S. TSCA INVENTORY: All components are included on the U.S. TSCA Inventory.

PRECAUTIONARY LABELS: Combustible Liquid. Harmful if inhaled. May cause chronic health effects.

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