

1	Chemical Product and Company Identification
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*Red Line Synthetic Oil
Corporation
6100 Egret Court
Benicia, CA 94510
Tel: (707) 745-6100*

Product Trade Name Red Line Water Remover and AntiFreeze
CAS Number Not applicable for mixtures.
Synonyms None.
Generic Chemical Name Mixture.
Product Type Fuel Additive
Preparation/Revision Date 28 May 2013
Transportation Emergency Phone No. FOR TRANSPORT EMERGENCY call +1 (707) 400-0215

2	Hazards Identification
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Appearance Clear amber liquid.
Odor Mild
Principal Hazards Warning.

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

Target Organs: No information available

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
Alkanolamide	68155-20-4	From 40 to 49.9 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 plenty of soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. 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 > 121 °C, 250 °F PMCC (Typical)
Extinguishing Media CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedures Recommend wearing self-contained breathing apparatus. Water may cause splattering.

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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 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 Open container in a well ventilated area. Avoid breathing vapors. 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. Contaminated work clothing should not be allowed out of the workplace. 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.
Maximum Storage Temperature 45 °C, 113 °F
Storage Procedures Do not store near potential sources of ignition. 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

Comp	Exposure Guidelines					
	OSHA		ACGIH		Other	
	TWA	STEL	TWA	STEL	TWA	STEL
Not available	N/E	N/E	N/E	N/E	N/E	N/E

- (s) - Skin exposure
- (p) - Proposed limit
- (c) - Ceiling exposure
- (l) - Recommended exposure limit
- (u) - Supplier recommended exposure limit
- (N/E) - None established

Engineering Controls Use local exhaust ventilation to control fumes. 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. Wear a chemically protective apron when contact with material may occur. When working with heated material, wear an insulated apron or an insulated chemical protective suit. Use neoprene or nitrile rubber boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.

9	Physical and Chemical Properties
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Flash Point 121 °C, 250 °F COC (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 1 (15.6 °C)
Bulk Density 8.31 Lb/gal, 1 Kg/L
Water Solubility Partially Soluble.
Percent Solid Not determined.
Percent Volatile Not determined.
Volatile Organic Compound Not determined.

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Vapor Density	Not determined.
Evaporation Rate	Not determined.
Odor	Mild
Appearance	Clear amber liquid.
Viscosity	44 Centistokes (40 °C)
Odor Threshold	Not determined.
Boiling Point	Not determined.
Pour Point Temperature	-20°C.
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. Strong alkalis. Oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: nitrogen.
Conditions to Avoid	Not determined.

11	Toxicological Information
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– ACUTE EXPOSURE –

Eye Irritation	Weak to moderate eye irritant. Does not meet EU R36 criteria. Based on data from components or similar materials.
Skin Irritation	May cause mild skin irritation. Does not meet Canadian D2B or EU R38 criteria. Based on data from components or similar materials. Prolonged or repeated contact may cause dermatitis.
Respiratory Irritation	May cause nose, throat, and lung irritation. Based on data from similar materials.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials. Prolonged or widespread contact with this material could result in the absorption of potentially harmful amounts.
Inhalation Toxicity	The LC50 (1 hr.) in rats for dust or mist of this material is 20 - 200 mg/l. Based on data from components or similar materials.
Oral Toxicity	The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials. Swallowing this material causes severe irritation and may cause burns of the mouth, esophagus and stomach, abdominal pain, nausea, vomiting and diarrhea.
Dermal Sensitization	No data available to indicate product or components may be skin sensitizers.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

– CHRONIC EXPOSURE –

Chronic Toxicity	Effects of prolonged or repeated exposure are not well established.
Carcinogenicity	This product is not considered to be carcinogenic under IARC.
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.
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12	Ecological Information
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– ENVIRONMENTAL TOXICITY –

Freshwater Fish Toxicity	Not determined
Freshwater Invertebrates Toxicity	Not determined.
Algal Inhibition	Not determined.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	Not determined.
Miscellaneous Toxicity	Not determined.

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– ENVIRONMENTAL FATE –

Biodegradation	At least 25% of the components in this product show moderate biodegradation based on OECD 301-type test data.
Bioaccumulation	10 – 25% of the components display 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	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.
U.S. DOT Bulk	Not regulated.
DOT NAERG	Not applicable.
U.S. DOT (Intermediate)	Not regulated.
U.S. DOT Intermediate NAERG	Not applicable.
U.S. DOT Non-Bulk	Not regulated.
U.S. DOT Non-Bulk NAERG	Not applicable.
Canada	Not regulated.
Mexico	Not regulated.

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.
EU	All components comply with the EU 7th Amendment and are approved for EU sales.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

– 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	Acute Hazard	No
	Chronic Hazard	No
	Fire Hazard	No
	Reactivity Hazard	No
CERCLA Hazardous Substances	None known.	

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– State Regulations –

– Product Registrations –

U.S. Fuel Registration Yes.

– Other / International –

Miscellaneous Regulatory Information Not determined.

16	Other Information
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US NFPA Codes

Health	Fire	Reactivity	Special
1	1	0	N/E

(N/E) - None established

HMIS Codes

Health	Fire	Reactivity
1*	1	0

Precautionary Labels

Warning.

- 1 May cause eye irritation.
- 1 May cause skin irritation.
- 1 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.