# **Safety Data Sheet**

According to OSHA HCS 2012 (29 CFR 1910.1200), Health Canada HPR (SOR/2015-17), and Mexico NOM-018-STPS-2015



### **SECTION 1: Identification**

Product Identifier: Red Line® MT-LV

Code:831538Issue date:15-Jul-2021Relevant identified uses:Transmission fluid

Uses advised against: All others

24 Hour Emergency Phone Number: CHEMTREC Global +1 703 527 3887

CHEMTREC United States 1-800-424-9300 CHEMTREC Mexico 01-800-681-9531

Manufacturer/Supplier: RED LINE SYNTHETIC OIL

6100 Egret Court Benicia, CA 94510

SDS Information: URL: www.phillips66.com/SDS

Phone: 800-762-0942 Email: SDS@P66.com

**Technical Information:** 1-707-745-6100

### **SECTION 2: Hazard identification**

Classified Hazards Not Otherwise Classified (HNOC)

H412 -- Hazardous to the aquatic environment, chronic toxicity -- Category 3 PHNOC: None known

HHNOC: None known

#### Label elements

H412 - Harmful to aquatic life with long lasting effects

P273 - Avoid release to the environment; P501 - Dispose of contents/ container to an approved waste disposal plant

### SECTION 3: Composition/information on ingredients

Chemical Name	CASRN	Concentration <sup>1</sup>
Synthetic Lubricant Base Oil	VARIOUS	<85
Zinc, bis[O,O-bis(2-ethylhexyl)	4259-15-8	<1.5
phosphorodithioato-S,S]-, (T-4)-		
Phosphorodithioic acid, mixed	68442-22-8	<1.5
O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc		
salts		
Triphenyl phosphite	101-02-0	<0.15

<sup>&</sup>lt;sup>1</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### **SECTION 4: First aid measures**

Eye Contact: If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

Skin Contact: Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and

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water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention.

**Inhalation:** First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. Seek immediate medical attention.

Ingestion: First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**Most important symptoms and effects, both acute and delayed:** Inhalation of oil mists or vapors generated at elevated temperatures may cause respiratory irritation. Accidental ingestion can result in minor irritation of the digestive tract, nausea and diarrhea. Prolonged or repeated contact may dry skin and cause irritation.

**Notes to Physician:** Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

### **SECTION 5: Firefighting measures**

### NFPA 704: National Fire Protection Association

Health: 0 Flammability: 1 Instability: 0



0 = minimal hazard

1 = slight hazard

2 = moderate hazard

3 = severe hazard

4 = extreme hazard

**Extinguishing Media:** Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F / 100°C. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

### Specific hazards arising from the chemical

**Unusual Fire & Explosion Hazards:** This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

**Hazardous Combustion Products:** Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

Special protective actions for fire-fighters: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

### SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop and contain spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

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**Methods and material for containment and cleaning up:** Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. See Section 13 for information on appropriate disposal.

### SECTION 7: Handling and storage

**Precautions for safe handling:** Keep away from flames and hot surfaces. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Spills will produce very slippery surfaces. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes.

Conditions for safe storage: Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well-ventilated area away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

### SECTION 8: Exposure controls/personal protection

### Occupational exposure limits

None.

### Biological occupational exposure limits

None.

**Engineering controls:** General ventilation should be adequate for normal conditions of intended use. Additional engineering controls may be necessary if working with the product in enclosed areas and/or at elevated temperatures.

**Eye/Face Protection:** The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury. Depending on conditions of use, a face shield may be necessary.

**Skin/Hand Protection:** The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile rubber

**Respiratory Protection:** Respiratory protection is not normally required under intended conditions of use. Emergencies or conditions that could result in significant airborne exposures may require the use of NIOSH approved respiratory protection. An industrial hygienist or other appropriate health and safety professional should be consulted for specific guidance under these situations.

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

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### SECTION 9: Physical and chemical properties

**Note:** Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Appearance: Amber, Transparent

Physical form of product: Liquid

Odor: Slight hydrocarbon

Odor threshold:

pH:

No data

Not applicable

Melting / freezing point:

No data

Initial boiling point and boiling range:

No data

No data

302 °F / > 150 °C

Method: Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010

Evaporation Rate (nBuAc=1):

Flammability (solid, gas):

Upper Explosive Limits (vol % in air):

Lower Explosive Limits (vol % in air):

Vapor pressure:

Vapor density:

No data

No data

Va mm Hg

Vapor density:

No data

Vapor pressure:

Vapor density:

No data

**Relative density:** 0.86 @ 60°F (15.6°C) (water = 1)

Solubility(ies):

Partition coefficient n-octanol /water (log KOW):

Autoignition temperature:

No data

No data

No data

Viscosity: 6.5 cSt @ 100°C; 29.8 cSt @ 40°C

Molecular weight: No data

Other information

Particle Size:No dataPour point:No dataBulk density7.13 lbs/gal

### SECTION 10: Stability and reactivity

Reactivity: Not chemically reactive.

Chemical stability: Stable under normal ambient and anticipated conditions of use.

Possibility of Hazardous Reactions: Hazardous reactions not anticipated.

Conditions to Avoid: Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition.

Incompatible Materials: Avoid contact with strong oxidizing agents and strong reducing agents.

Hazardous Decomposition Products: Not anticipated under normal conditions of use.

### SECTION 11: Toxicological information

### Information on Toxicological Effects

#### Substance / Mixture

Acute	Hazard	Additional Information	LC50/LD50 Data
Toxicity			
Inhalation	Unlikely to be harmful		>5 mg/L (mist, estimated)
Dermal	Unlikely to be harmful		> 2 g/kg (estimated)
Oral	Unlikely to be harmful		> 5 g/kg (estimated)

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Likely Routes of Exposure: Inhalation, eye contact, skin contact

Aspiration Hazard: Not expected to be an aspiration hazard

Skin Corrosion/Irritation: Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.

Serious Eye Damage/Irritation: Causes mild eye irritation.

**Skin Sensitization:** No information available on the mixture, however none of the components have been classified for skin sensitization (or are below the concentration threshold for classification).

Respiratory Sensitization: No information available.

**Specific Target Organ Toxicity (Single Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Specific Target Organ Toxicity (Repeated Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Carcinogenicity:** No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).

**Germ Cell Mutagenicity:** No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

**Reproductive Toxicity:** No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

### **SECTION 12: Ecological information**

#### GHS Classification:

H412 -- Hazardous to the aquatic environment, chronic toxicity -- Category 3

Harmful to aquatic life with long lasting effects.

Toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Persistence and Degradability:** Synthetic base oils are not considered to be readily biodegradable but may be inherently biodegradable. They are expected to completely biodegrade over extended periods of time.

**Bioaccumulative Potential:** Log Kow values measured for the hydrocarbon components of this material range from 4 to over 6, and are therefore regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce bioconcentration. Synthetic base oil components are not expected to bioaccumulate.

**Mobility in Soil:** Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, this material will float and spread over the surface at a rate dependent upon viscosity. The main fate process is expected to be slow biodegradation of individual components in soil and sediment.

Other adverse effects: None anticipated.

### SECTION 13: Disposal considerations

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations. This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste. This material under most intended uses would become "Used Oil" due to contamination by physical or chemical

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impurities. Whenever possible, Recycle used oil in accordance with applicable federal and state or local regulations. Container contents should be completely used and containers should be emptied prior to discard.

### **SECTION 14: Transport information**

**UN Number:** Not regulated

**UN proper shipping name:** Not regulated **Transport hazard class(es):** None

Packing Group: None

Environmental Hazard(s): This product does not meet the DOT/UN/IMDG/IMO criteria of a marine pollutant

Special precautions for user: If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49

CFR, Part 130 apply. (Contains oil)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

### SECTION 15: Regulatory information

#### CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds)

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

### CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CERCLA/SARA - Section 313 and 40 CFR 372

This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

Chemical Name	Concentration <sup>1</sup>	de minimis
Zinc Compound(s)	1-3	1.0%

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### EPA (CERCLA) Reportable Quantity (in pounds)

This material does not contain any chemicals with CERCLA Reportable Quantities.

#### **California Proposition 65**

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

#### **International Inventories**

TSCA (United States): All ingredients are on the inventory or exempt from listing. All components are either on the DSL, or are exempt from DSL listing requirements.

### **SECTION 16: Other information**

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#### **Revised Sections or Basis for Revision:**

Periodic review and update; Identified Hazards (Section 2); Physical Properties (Section 9); Environmental hazards (Section 12)

### Mexican NOM-018-STPS-2015:

The information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

#### **Precautionary Statements**

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P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

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#### **Guide to Abbreviations:**

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; HPR = Hazardous Products Regulations; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

### Disclaimer of Expressed and implied Warranties:

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.



## **RED LINE MT-LV 70W/75W GL-4 GEAR OIL**



- Recommended for Mercedes 235.10, Dodge/Fiat BOT 350 M, GM BOT 303 mod, Toyota/Scion Manual Transmissions Gear Oil LV, VW/Audi and BOT 270A Graziano Transaxle for Aston Martin, Audi & Lamborghini.
- Safe for brass synchros, as it lacks the reactive sulfurs found in most GL-5 oils that cause damage
- Offers quicker shifts, perfect synchronizer coefficient of friction
- Low fluid friction to improve power transfer
- Eliminates notchy shifting, even when cold
- High performance gear protection and longer synchro life
- Satisfies the gear oil viscosity requirements for 70W & 75W
- Recommended for GL-1, GL-3 and GL-4 applications as well as where most special synchromesh fluids are

#### **RECOMMENDED FOR:**

API GL-4/GL-3/GL-1 SAE 70W/75W

Aston Martin, Audi R8, and Lamborghini with Granziano transaxles Castrol BOT 270A

RMW DTF 1 X-Drive Transfer Case Fluid 83 22 0 306 816 83 22 2 409 710

BorgWarner 44-40/44/45/46 **Transfer Cases** 

Cadillad 19331044

Castrol BOT 270A **BOT 350M3** BOT 303 mod

GS CALTEX MTF HD 70W

Chrysler/Dodge/Jeep 9.55550-MZ6

Dodge/Fiat 68092630AA WSS-M2C200-D2 XT-11-QDC

> 10-4037 19259105

Honda (Euro Market) i-Shift MTF-3 or MTF-III

Hyundai/Kia 00232-19063

Jaguar/Land Rover C2Z25586

235.10 235.73 317

001 989 26 03 10 A 001 989 98 03 09

Mobilfluid LT

Nissan/Infinity 999MP-TF0870P TF0870

Porsche 000 043 300 36 000 043 301 36 000 043 305 63

Ram/Mopar 68049954AA/AC

SPIRAX S6 GHME 70W

68089195AA

TF 0870

HK MTF 70W Toyota

MT Gear Oil LV 75W 08885-81040

Toyota/Lexus

Genuine Transfer Case Gear Oil LF 75W 08885-81080

Manual Transmission Oil LV 08885-81001

VW/Audi

G 052 171 G 052 512 A2 G 055 515 G 052 527 A2 G 052 725

G 052 726 G 060 726 A2 G 070 726 A2

### **TYPICAL PROPERTIES:**

API Service Class	GL-4
SAE Viscosity Grade (Gear Oil)	70W/75W
Vis @ 100°C, cSt	6.5
Vis @ 40°C, cSt	30.6
Viscosity Index	175
Pour Point, °C	-60
Pour Point, °F	-76
Brookfield Viscosity @ -40°C, Poise	60

#### **PACKAGE SIZES:**

50604 - MT-LV 70W/75W GL-4 - guart

50605 - MT-LV 70W/75W GL-4 - 1 gallon 50606 - MT-LV 70W/75W GL-4 - 5 gallon

50607 - MT-LV 70W/75W GL-4 - 16 gallon

50608 - MT-LV 70W/75W GL-4 - 55 gallon

### ABOUT RED LINE GEAR OIL FOR MANUAL TRANSMISSIONS

- Appropriate coefficient of friction for most manual transmission synchronizers (other synthetic gear oils are often too slippery for proper synchro engagement)
- Red Line offers lubricants to pinpoint nearly every transmission application
- MT-LV, MTL, MT-85 and MT-90 are not for use in differentials with hypoid gears
- Excellent gear and synchro protection, balanced slipperiness for easier shifting in cold climates
- Excellent for high- and low-mile transmissions
- Compatible with petroleums and other synthetics

For health safety information, please refer to the Safety Data Sheet at REDLINEOIL.COM