



# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name or designation of the mixture** Red Line® Full Synthetic 20W60 Motorcycle Oil  
**Registration number** -  
**Synonyms** None.  
**SDS number** 830005  
**Issue date** 21-November-2016  
**Version number** 01  
**Revision date** -  
**Supersedes date** -

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Engine oil.  
**Uses advised against** All other uses.

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer / Supplier

**Company name** RED LINE SYNTHETIC OIL CORP.  
**Address** 6100 Egret Court, Benicia, CA 94510, USA  
**SDS Information**  
**Telephone number** +1-707-745-6100  
**Technical Information**  
**Telephone number** +1-707-745-6100

### 1.4. Emergency telephone number

**CHEMTREC UK** +(44)-870-8200418 & 1 703-527-3887

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

**Health hazards**  
Skin sensitisation Category 1A H317 - May cause an allergic skin reaction.

**Environmental hazards**  
Hazardous to the aquatic environment, long-term aquatic hazard Category 3 H412 - Harmful to aquatic life with long lasting effects.

**Hazard summary** May cause an allergic skin reaction. Dangerous for the environment if discharged into watercourses.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Butanedioic acid, 2-[(4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl)thio]-, 1,4-bis(2-ethylhexyl) ester

#### Hazard pictograms



**Signal word** Warning

#### Hazard statements

H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

#### Storage

Store away from incompatible materials.

#### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** None.

**2.3. Other hazards** Not a PBT or vPvB substance or mixture. Prolonged and repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	1 - < 3	68649-42-3 272-028-3	-	-	
<b>Classification:</b>	Skin Irrit. 2;H315, Eye Dam. 1;H318, Aquatic Chronic 2;H411				
Butanedioic acid, 2-[(4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl)thio]-, 1,4-bis(2-ethylhexyl) ester	< 1	126104-53-8 -	-	-	
<b>Classification:</b>	Skin Sens. 1A;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

#### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 4.1. Description of first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist.

**Skin contact** Remove contaminated clothing and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

**Eye contact** Flush eyes with water as a precaution. Get medical attention if irritation develops or persists.

**Ingestion** Rinse mouth. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed** May cause an allergic skin reaction. Dermatitis. Rash. Prolonged or repeated contact may dry skin and cause irritation. Irritation of eyes and mucous membranes. Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.

**4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

## SECTION 5: Firefighting measures

#### General fire hazards

The product is not flammable. Will burn if involved in a fire.

#### 5.1. Extinguishing media

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

**5.2. Special hazards arising from the substance or mixture** Combustion products include: Carbon monoxide, carbon dioxide, various hydrocarbon fragments as well as thick smoke. Oxides of Sulfur, Phosphorus and Nitrogen may also be formed.

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

<b>Special fire fighting procedures</b>	Cool containers exposed to heat with water spray and remove container, if no risk is involved.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Provide adequate ventilation. Keep unnecessary personnel away.
<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.

**6.3. Methods and material for containment and cleaning up**

Liquid spilled on the ground:

Contain the liquid if possible. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Liquid spread on water surface:

Confine the spill with booms. Remove from water surface by skimming or with suitable absorbents. Transfer to a container for disposal.

Clean up in accordance with all applicable regulations. Local authorities should be advised if significant spillages cannot be contained.

**6.4. Reference to other sections**

For personal protection, see section 8 of the SDS.  
For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Wear necessary protective equipment. Avoid inhalation of vapours and contact with skin and eyes. Persons susceptible for allergic reactions should not handle this product. In case of spills, beware of slippery floors and surfaces. Observe good industrial hygiene practices. Wash thoroughly after handling.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	"Empty" containers retain product residue (liquid or vapour) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.  Keep container tightly closed in a dry and well-ventilated place. Protect against physical damage. Store away from incompatible materials.
<b>7.3. Specific end use(s)</b>	Engine oil.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.
<b>Derived no effect levels (DNELs)</b>	Not available.
<b>Predicted no effect concentrations (PNECs)</b>	Not available.

### 8.2. Exposure controls

**Appropriate engineering controls** Provide adequate ventilation and minimise the risk of inhalation of vapours and mists.

### Individual protection measures, such as personal protective equipment

<b>General information</b>	Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Eye/face protection</b>	It is a good industrial hygiene practice to minimise eye contact. Wear approved safety glasses or goggles.
<b>Skin protection</b>	
- Hand protection	Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.
- Other	Wear suitable protective clothing.

<b>Respiratory protection</b>	No protection is ordinarily required with adequate ventilation. In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P2) can be used.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Hygiene measures</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.
<b>Environmental exposure controls</b>	Contain spills and prevent releases and observe national regulations on emissions.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Amber.
<b>Odour</b>	Petroleum.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 150.0 °C (> 302.0 °F) Pensky-Martens Closed Cup ASTM D93, EPA 1010
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	< 1 mm Hg
<b>Vapour density</b>	> 1 (Air = 1)
<b>Relative density</b>	0.898
<b>Relative density temperature</b>	15.56 °C (60 °F)
<b>Solubility(ies)</b>	Negligible in water.
<b>Partition coefficient (n-octanol/water)</b>	
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	23.7 cSt (100 °C) 161.6 cSt (40 °C)
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.

### 9.2. Other information

<b>Bulk density</b>	7.5 lbs/gal
---------------------	-------------

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	The product is stable under normal conditions of use, storage and transport.
<b>10.3. Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>10.4. Conditions to avoid</b>	High temperatures. Ignition sources.
<b>10.5. Incompatible materials</b>	Strong oxidising agents. Strong reducing agents.
<b>10.6. Hazardous decomposition products</b>	None expected under normal conditions of use.

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
----------------------------	--

## Information on likely routes of exposure

<b>Inhalation</b>	Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.
<b>Skin contact</b>	Causes mild skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	Mild eye irritation.
<b>Ingestion</b>	May cause discomfort if swallowed.

**Symptoms** May cause an allergic skin reaction. Dermatitis. Rash. Prolonged or repeated contact may dry skin and cause irritation. Irritation of eyes and mucous membranes. Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.

### 11.1. Information on toxicological effects

**Acute toxicity** Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

<b>Product</b>	<b>Species</b>	<b>Test results</b>
Red Line® Full Synthetic 20W60 Motorcycle Oil (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50		> 2 g/kg, (Estimated)
<i>Inhalation</i>		
LC50		> 5 mg/l, (Estimated)
<i>Oral</i>		
LD50		> 5 g/kg, (Estimated)

<b>Components</b>	<b>Species</b>	<b>Test results</b>
Butanedioic acid, 2-[(4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl)thio]-, 1,4-bis(2-ethylhexyl) ester (CAS 126104-53-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Oral</i>		
LD50	Rat	> 5000

**Skin corrosion/irritation** Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.

**Serious eye damage/eye irritation** Mild eye irritation.

**Respiratory sensitisation** No information available on the mixture. However, none of the components are classified in respect of this hazard (or are present at a level below the concentration threshold for classification).

**Skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** No information available on the mixture. However, none of the components are classified in respect of this hazard (or are present at a level below the concentration threshold for classification).

**Carcinogenicity** No information available on the mixture. However, none of the components are classified in respect of this hazard (or are present at a level below the concentration threshold for classification).

**Reproductive toxicity** No information available on the mixture. However, none of the components are classified in respect of this hazard (or are present at a level below the concentration threshold for classification).

**Specific target organ toxicity - single exposure** No information available on the mixture. However, none of the components are classified in respect of this hazard (or are present at a level below the concentration threshold for classification).

**Specific target organ toxicity - repeated exposure** No information available on the mixture. However, none of the components are classified in respect of this hazard (or are present at a level below the concentration threshold for classification).

**Aspiration hazard** Not classified.

**Mixture versus substance information** None known.

**Other information** None known.

## SECTION 12: Ecological information

**12.1. Toxicity** Harmful to aquatic life with long lasting effects.

Components	Species		Test results
Butanedioic acid, 2-[(4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl)thio]-, 1,4-bis(2-ethylhexyl) ester (CAS 126104-53-8)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Daphnia	0.52 mg/l, 48 h
	NOEC	Daphnia	0.32 mg/l, 48 h
Fish	LC50	Fish	0.64 mg/l, 96 h
	NOEC	Fish	0.047 mg/l, 96 h

**12.2. Persistence and degradability** The product is not readily biodegradable. Expected to be inherently biodegradable.

**12.3. Bioaccumulative potential** Has the potential to bioaccumulate.

**Partition coefficient n-octanol/water (log Kow)**

Butanedioic acid, 2-[(4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl)thio]-, 1,4-bis(2-ethylhexyl) ester (CAS 126104-53-8) > 4.59

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** Expected to have low mobility in soil and sediments with adsorption being the predominant physical process.

**12.5. Results of PBT and vPvB assessment** Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** None known.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Residual waste** Recover and recycle, if practical. Contact specialist disposal companies.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**EU waste code** 13 02 06\*  
Waste codes should be assigned by the user based on the application for which the product was used.

**Disposal methods/information** Dispose in accordance with all applicable regulations.

**SECTION 14: Transport information**

**ADR**

14.1. - 14.6.: Not regulated as dangerous goods.

**RID**

14.1. - 14.6.: Not regulated as dangerous goods.

**ADN**

14.1. - 14.6.: Not regulated as dangerous goods.

**IATA**

14.1. - 14.6.: Not regulated as dangerous goods.

**IMDG**

14.1. - 14.6.: Not regulated as dangerous goods.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**  
Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**  
Not listed.

#### **Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended**  
Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**  
Not listed.

#### **Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**  
Not listed.

#### **Other regulations**

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

#### **National regulations**

Follow national regulation for work with chemical agents.  
Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

#### **15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

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

#### **List of abbreviations**

LC50: Lethal Concentration, 50%.  
LD50: Lethal Dose, 50%.  
EC50: Effective Concentration, 50%.  
NOEC: No observed effect concentration.

#### **References**

ECHA CHEM

#### **Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### **Full text of any H-statements not written out in full under Sections 2 to 15**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

#### **Training information**

Follow training instructions when handling this material.

#### **Further information**

No information available.

#### **Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.