Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)



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

1.1. Product identifier

Substance name: Red Line® 75W140 High Performance Gear

Dil

Code: 829150

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

Relevant identified uses Gear Lubricant

Uses advised against Other uses are not recommended unless an assessment

demonstrates potential exposures will be controlled.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier RED LINE SYNTHETIC OIL

6100 Egret Court Benicia, CA 94510 1-707-745-6100

 Technical Information
 1-707-745-6100

 SDS Information
 Phone: 1-707-745-6100

1.4. Emergency telephone number CHEMTREC UK +(44)-870-8200418

CHEMTREC Germany 0800-181-7059
CHEMTREC France +(33)-975181407
CHEMTREC Spain 900-868538
CHEMTREC Belguim +(32)-28083237
CHEMTREC Norway (Oslo) +(47)-21930678
CHEMTREC Finland (Helsinki) +(358)-942419014
CHEMTREC Sweden (Stockholm) +(46)-852503403

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP Classification (EC No 1272/2008)

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

2.2. Label elements

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

2.3. Other hazards

Does not meet the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent, very bioaccumulative (vPvB) substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

...........

829150 - Red Line® 75W140 High Performance Gear Oil

Issue Date: 01-Nov-2017

Page 1/8

Status: FINAL

Page 2/8

Status: FINAL

Chemical Name	CASRN	EINECS	REACH Registration No	Concentration ¹	Classification ²
1-Dodecene, homopolymer, hydrogenated	151006-63-2	604-769-9	-	<35	-
1-Dodecene, trimer, hydrogenated	151006-62-1		-	15 - 19.9	H413
Polysulfides, di-tert-butyl	68937-96-2	273-103-3	-	3.5 - 5.99	H317,H319,H412
Reaction products of bis)2-methylpentan-2-yl)dit hiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (Branched)	NONE	931-384-6	-	1-2.49	H226,H317,H318,H411
Other components not contributing to product hazard(s)	VARIOUS		-	<45	-

¹ All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Issue Date: 01-Nov-2017

SECTION 4: First aid measures

4.1. Description of 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 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.

4.2. Most important symptoms and effects, both acute and delayed

Prolonged or repeated contact may dry skin and cause irritation. Inhalation of oil mists or vapours generated at elevated temperatures may cause respiratory irritation. Accidental ingestion can result in minor irritation of the digestive tract, nausea and diarrhea.

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

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

5.1. 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.

5.2. Special hazards arising from the substance or mixture

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.

² Regulation EC 1272/2008.

Issue Date: 01-Nov-2017 Status: FINAL

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

Page 3/8

5.3. 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 vapours 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

6.1. 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 unauthorised 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.

6.2. Environmental precautions

Stop and contain spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorised 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.

6.3. 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

7.1. Precautions for safe handling

Keep away from flames and hot surfaces. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. 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. Do not wear contaminated clothing or shoes.

7.2. Conditions for safe storage, including any incompatibilities

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.

"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 appropriate guidance pertaining to cleaning, repairing, welding, or other contemplated operations. Outdoor or detached storage is preferred. Indoor storage should meet

Page 4/8 Issue Date: 01-Nov-2017 Status: FINAL

Country or Committee standards and appropriate fire codes.

7.3. Specific end use(s)

Refer to supplemental exposure scenarios if attached.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	Occ	cupational Exposure Lim	nits	
Chemical Name	ACGIH	Ireland	United Kingdom	Phillips 66
Lubricant Base Oil	TWA-8hr: 5 mg/m ³			
(Petroleum)	STEL: 10 mg/m ³			
	as Oil Mist, if Generated			

STEL = Short Term Exposure Limit (15 minutes); TWA = Time Weighted Average (8 hours); --- = No Occupational Exposure Limit

Biological Limit Values

Note: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Relevant DNEL and PNEC: No information available

8.2. Exposure controls

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

Eye/Face Protection: The use of eye protection that meets or exceeds EN 166 is recommended to protect against potential eye contact, irritation, or injury. Depending on conditions of use, close fitting eye protection and a face shield may be necessary.

Skin/Hand Protection: The use of gloves impervious to the specific material handled that comply with EN 374 is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile

Respiratory Protection: Where there is potential for airborne exposure above the exposure limit an approved air purifying respirator equipped with Type P2 - Medium efficiency particle filters may be used.

A respiratory protection programme that follows recommendations for the selection, use, care and maintenance of respiratory protective devices in EN 529:2005 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health.

Environmental Exposure Controls: Refer to Sections 6, 7, 12 and 13.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Data represent typical values and are not intended to be specifications. N/A = Not Applicable; N/D = Not Determined

Amber Appearance: **Physical Form:** Liquid

Slight Hydrocarbon Odour:

Odour Threshold:

N/D

829150 - Red Line® 75W140 High Performance Gear Oil

Issue Date: 01-Nov-2017 Status: FINAL

Page 5/8

pH: N/A
Melting/Freezing Point: N/D
Initial Boiling Point/Range: N/D
Flash Point: 138 °C
Evaporation Rate (nBuAc=1): N/D

Flammability (solid, gas): Not applicable

 Upper Explosive Limits (vol % in air):
 N/D

 Lower Explosive Limits (vol % in air):
 N/D

 Vapour Pressure:
 N/D

 Relative Vapour Density (air=1):
 >1

Relative Density (water=1): 0.909 @ 60°F (15.6°C)
Solubility (ies): Solubility in water: Negligible

Partition Coefficient (n-octanol/water) (Kow): N/D
Auto-ignition Temperature: N/D
Decomposition Temperature: N/D

Viscosity: 27.1 cSt @ 100°C; 182.7 cSt @ 40°C

Explosive Properties: N/D Oxidising Properties: N/D

9.2. Other information

Pour Point: N/D Bulk Density: N/D 7.57 lbs/gal

SECTION 10: Stability and reactivity

10.1. ReactivityNot chemically reactive.

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

10.3. Possibility of hazardous reactionsHazardous reactions not anticipated.

10.4. Conditions to avoid Extended exposure to high temperatures can cause

decomposition.

10.5. Incompatible materials Avoid contact with strong oxidizing agents and strong reducing

agents.

10.6. Hazardous decomposition productsNot anticipated under normal conditions of use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance / Mixture

Acute Toxicity	Hazard	Additional Information	LC50/LD50 Data	
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)	
	<u> </u>			

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

Respiratory Sensitisation: No information available.

Issue Date: 01-Nov-2017 Status: FINAL

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).

Page 6/8

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).

11.2 Information on Hazardous Components

Lubricant Base Oil (Petroleum)

Carcinogenicity: Repeated application of heavy fuel oils containing high polycyclic aromatic hydrocarbon content has been shown to cause an increased incidence of skin tumors in mice.

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

Polyalphaolefins (synthesized hydrocarbons) & polyalkylene glycol 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. Most synthetic polyol esters are considered readily biodegradable and are expected to completely biodegrade over extended periods of time.

12.3. Bioaccumulative potential

PAO synthetic base oils are not expected to bioaccumulate.

12.4. Mobility in soil

Volatilisation to air is not expected to be a significant fate process due to the low vapour pressure of this material. In water, this material does not impart any sheen and 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.

12.5. Results of PBT and vPvB assessment

Not a PBT or vPvB substance.

12.6. Other adverse effects

None anticipated.

German Water Hazard Information: hazard class 1 - low hazard to waters

SECTION 13: Disposal considerations

13.1. Waste treatment methods

European Waste Code: 13 02 06* synthetic engine, gear and lubricating oils

This material, if discarded as produced, would be considered as hazardous waste pursuant to Directive 2008/98/EC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies.

This code has been assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste generators/producers are responsible for assessing the actual process used when generating the waste and it's contaminants in order to assign the proper waste disposal code.

Page 7/8 Issue Date: 01-Nov-2017 Status: FINAL

This material under most intended uses would become "waste oils" due to contamination by physical or chemical impurities. Whenever possible, Directive 75/439/EEC suggests recycling of "waste oils" in accordance with current national and regional provisions.

Empty Containers: Container contents should be completely used and containers emptied prior to discard. Empty drums should be properly sealed and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with applicable regulations.

SECTION 14: Transport information

14.1. UN number Not regulated

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

None 14.4. Packing group

14.5. Environmental hazards This product does not meet the DOT/UN/IMDG/IMO criteria of a

marine pollutant

14.6. Special precautions for user None

14.7. Transport in bulk according to Annex II of MARPOL

73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

EC 1272/2008 - Classification, labelling and packaging of substances and mixtures

EN166:2002 Eye Protection

EN 529:2005 Respiratory Protective devices

BS EN 374-1:2003 Protective gloves against chemicals and micro-organisms

Occupational Exposure Limits, Technical Rules for Dangerous Substances

Occupational Exposure Limits, Health and Safety Authority

Workplace Exposure Limits, EH40/2005, Control of Substances Hazardous to Health

Federal Water Act on the Classification of Substances Hazardous to Waters

Directive 2008/98/EC (Waste Framework Directive)

Export Rating: NLR (No Licence Required)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance/mixture.

SECTION 16: Other information

01-Nov-2017 **Issue Date:** Status: **FINAL**

19-Nov-2015 **Previous Issue Date:**

Revised Sections or Basis for Revision: Identified Hazards (Section 2) Composition (Section 3)

Safety Data Sheet Number: 829150 ΒE Language:

List of Relevant Hazard Statements:

H226 - Flammable liquid and vapour

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

829150 - Red Line® 75W140 High Performance Gear Oil

Issue Date: 01-Nov-2017 Status: FINAL

Page 8/8

H412 - Harmful to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life

Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = Agreement on Dangerous Goods by Road; BMGV = Biological Monitoring Guidance Value; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA = [US] Environmental Protection Agency; Germany-TRGS = Technical Rules for Dangerous Substances; IARC = International Agency for Research on Cancer; ICAO/IATA = International Civil Aviation Organisation / International Air Transport Association; INSHT = National Institute for Health and Safety at Work; IMDG = International Maritime Dangerous Goods; Irland-HSA = Ireland's National Health and Safety Authority; LEL = Lower Explosive Limit; MARPOL = Marine Pollution; N/A = Not Applicable; N/D = Not Determined; NTP = [US] National Toxicology Programme; PBT = Persistent, Bioaccumulative and Toxic; RID = Regulations Concerning the International Transport of Dangerous Goods by Rail; STEL = Short Term Exposure Limit; TLV = Threshold Limit Value; TRGS 903 = Technical rules for hazardous substances; TWA = Time Weighted Average; UEL = Upper Explosive Limit; UK-EH40 = United Kingdom EH40/2005 OEL; vPvB = very Persistent, very Bioaccumulative

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 authorisation is given nor implied to practice any patented invention without a licence.