

SAFETY DATA SHEET

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

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1.1. Product identifier	
Trade name or designation of the mixture	Red Line® Heavy Shockproof® Gear Oil
Registration number	-
Synonyms	None.
SDS number	829145
Issue date	31-August-2015
Version number	01
Revision date	-
Supersedes date	-
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	Gear lubricant.
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
CHEMTREC Germany (toll free)	0800-181-7059
CHEMTREC France	+(33)-975181407
CHEMTREC Spain (toll free)	900-868538
CHEMTREC Italy (toll free)	800-789-767
CHEMTREC Italy	+(39)-0245557031
CHEMTREC Czech	+(420)-228880039
Republic CHEMTREC Belgium	+(32)-28083237

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

Hazard summary	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.	
2.2. Label elements		
Label according to Regulation (EC) No. 1272/2008 as amended		
Hererd piete grome	Nono	

Hazard pictograms	None.
Signal word	None.
Hazard statements	None.
Precautionary statements	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.

Red Line® Heavy Shockproof® Gear Oil

Disposal	Dispose of waste and residues in accordance with local authority requirements.
Supplemental label information	EUH210 - Safety data sheet available on request.
2.3. Other hazards	Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Note
Non-Hazardous Materials	<100	Various	-	-	
Classification:		-			
Calcium petroleum sulfonate	5-15	68783-96-0 272-213-9	-	-	
Classification: Aquatic (Chronic 4;H413	3			

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 measured	sures
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. Get medical attention if irritation develops and persists.
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	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. This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

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, CO2, water spray or regular foam.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
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.
Special fire fighting procedures	Cool containers exposed to heat with water spray and remove container, if no risk is involved.
Specific methods	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

For non-emergency personnel	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Provide adequate ventilation. Keep unnecessary personnel away.
For emergency responders	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		
7.1. Precautions for safe handling	Wear necessary protective equipment. Avoid inhalation of vapours and contact with skin and eyes. Observe good industrial hygiene practices. Wash thoroughly after handling. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.		
	"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. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of.		
7.2. Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition. Protect against physical damage. Store away from incompatible materials.		

7.3. Specific end use(s) Gear lubricant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value
Molybdenum, bis (dibutylcarbamodithioato) di-mu-oxodioxodi-, sulfurized (CAS 68412-26-0)	STEL	20 mg/m3
,	TWA	10 mg/m3
Biological limit values	No biological exposure limits noted for	or the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedur	es.
Derived no-effect level (DNEL)	Not available.	
Predicted no effect concentrations (PNECs)	Not available.	
8.2. Exposure controls		
Appropriate engineering controls	Provide adequate ventilation and mir	nimise the risk of inhalation of vapours and mists.
Individual protection measures,	such as personal protective equipm	nent
General information	Personal protective equipment shoul discussion with the supplier of the per-	d be chosen according to the CEN standards and in protective equipment.
Eye/face protection	It is a good industrial hygiene practic goggles.	e to minimise eye contact. Wear approved safety glasses or
Skin protection		
- Hand protection		s are recommended, but be aware that the liquid may ge is advisable. Suitable gloves can be recommended by the
- Other	Wear suitable protective clothing.	
Respiratory protection		ith adequate ventilation. In case of inadequate ventilation or respiratory equipment with combination filter (type A2/P2) can

Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	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.
Environmental exposure controls	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	
Physical state	Liquid.
Form	Liquid.
Colour	Red.
Odour	Slight hydrocarbon.
Odour threshold	Not available.
рН	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 150.0 °C (> 302.0 °F) Pensky-Martens Closed Cup ASTM D93, EPA 1010
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	< 1 mm Hg
Vapour density	> 1 (Air= 1)
Relative density	0.948
Relative density temperature	15.56 °C (60 °F)
Solubility(ies)	Insoluble in water.
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	28.8 cSt (100 °C) 186.5 cSt (40 °C)
Explosive properties	Not explosive.
Oxidizing properties	Not oxidising.
9.2. Other information	
Bulk density	7.9 lbs/gal
SECTION 10: Stability and	reactivity
10.1. Reactivity	The product is stable and non reactive under normal conditions of use, storage and tra

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

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation

No inhalation hazard under normal conditions.

Skin contact	Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed.
Symptoms	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 com	mercial handling by trained personnel.
Product	Species	Test results
Red Line® Heavy Shockproof® G	ear Oil (CAS Mixture)	
Acute		
Dermal		
LD50	:	> 2 g/kg, (Estimated)
Inhalation		
LC50	:	> 5 mg/l, (Mist, estimated)
Oral		
LD50	:	> 5 g/kg, (Estimated)
Skin corrosion/irritation	Causes mild skin irritation. Repeated exposure may ca	use skin dryness or cracking.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation	
Respiratory sensitisation	No information available on the mixture. However, none respect of this hazard (or are present at a level below th classification).	
Skin sensitisation	No information available on the mixture. However, none respect of this hazard (or are present at a level below th classification).	
Germ cell mutagenicity	No information available on the mixture. However, none respect of this hazard (or are present at a level below th classification).	
Carcinogenicity	No information available on the mixture. However, none respect of this hazard (or are present at a level below th classification).	
Reproductive toxicity	No information available on the mixture. However, none respect of this hazard (or are present at a level below th classification).	
Specific target organ toxicity - single exposure	No information available on the mixture. However, none respect of this hazard (or are present at a level below th classification).	
Specific target organ toxicity - repeated exposure	No information available on the mixture. However, none respect of this hazard (or are present at a level below th classification).	
Aspiration hazard	Not classified.	
Mixture versus substance information	None known.	
Other information	None known.	
SECTION 12: Ecological in	nformation	

12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.2. Persistence and degradability	Not readily degradable. Expected to be inherently biodegradable.
12.3. Bioaccumulative potential	The product is not expected to bioaccumulate.
Partition coefficient n-octanol/water (log Kow)	No data available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	The product is insoluble or slightly soluble in water. Expected to partition to sediment and wastewater solids. Minimally volatile. The main fate process is expected to be slow biodegradation of the hydrocarbon components.

Oil spills are generally hazardous to the environment.

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. DO NOT pressurise, cut, heat or weld containers; they may explode and cause injury or death. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.
EU waste code	13 02 05* Waste codes should be assigned by the user based on the application for which the product was used.
Disposal mathods/information	Dispose in accordance with all applicable regulations

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

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

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 (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.
- Regulation (EC) No. 689/2008 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 authorization, 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.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Not listed.

Directive 94/33/EC on the protection of young people at work Not listed.

Other regulations	This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended. The product is classified and labelled in accordance with EC directives or respective national laws.
National regulations	Follow national regulation for work with chemical agents.
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%.
	TWA: Time weighted average.
	STEL: Short term exposure limit.
References	Not available.
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	H413 May cause long lasting harmful effects to aquatic life.
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.