

Pursue your passion here®

# Materials Safety Data Sheet • 123-008 • Red Line Gear Oil

Prep	pared to OSHA, ACC,	ANSI, NOHSC, WHM	IS & 2001/58 E	C Standards	MSDS	Revision: 2	2.0	MSDS	Revision D	ate:	01/01/2008
1.	PRODUCT IDEN	ITIFICATION					CHEN		RESPON	SE CAR	D: <b>98</b>
1.1	Product Name:	<b>RED LINE SH</b>	OCKPRO	OF™ GEA	R OIL		RESPO	NSE		Ji Pa	2
1.2	Chemical Name:	See ingredients listed in section 3			TEAM	PPE:	₩ `	10	0		
1.3	Synonyms:	None reported by	y the manufac	cturer				e.	$\overline{\mathbf{T}}$		
1.4	Trade Names:	Red Line Shockpr	oof™ Gear Oi	il			WHMI	5:	$\bigcirc$		
1.5	Product Use:	Automotive – Lub	oricant				HEALT	H:			1
1.6	Manufacturer's Name:	Red Line Syntheti	c Oil Corporat	tion			FLAMMABILITY:				1
1.7	Manufacturer's Address:	6100 Egret Court,	Benicia, CA 9	4510 USA			REACTIVITY:				0
1.8	Business Phone:	+1 (707) 745-6100					PERSO	NAL PR	ROTECTIC	DN:	В
1.9	Emergency Phone:	CHEMTREC	+1 (800) 4	124-9300/·	+1 (70	)3) 527·	-3887				
 			2. IDEI	NTIFICATIO		RISKS					
2.1	Hazard Identification:										
	This product is not c NOHSC:1088 (1999)					JEKOUS G		cording	to the cla	ssification	criteria of
2.2	Routes of Entry:		Inhalation:	YES		osorption:	١	(ES	Ingestion	n:	YES
2.3	Effects of Exposure:										
	EYES: This product c SKIN: This product c		•				iquia spro	ays or mi	STS.		
	INGESTION: If swallo						on can c	ause a l	axative eff	ect. If as	pirated into
	the lungs, liquid can										
	INHALATION: No sig				to occu	r upon sh	ort-term e	exposure	e to this pr	oduct. As	spiration of
2.4	Symptoms of Exposure:	can cause severe it	ing aamage o	or death.							
	EYES: Irritation, redn	ess, and watering.									
	<u>SKIN</u> : Possible irritati	-				-	ed, itching	g skin.			
	INGESTION: Laxative										
	INHALATION: May cause irritation to the upper respiratory system. Overexposure to sprays or mists may cause chemical pneumonitis.							cnemical			
2.5	Acute Health Effects:										
	EYES: Slightly irritation	-									
	SKIN: Low toxicity. I			•		aa and ha	adaaba				
	INGESTION: Low tox INHALATION: Neglig	•							rs mists or	fumes th	at may be
	irritating to the eyes,			or moogh m	ename	ur uchon,	indy ioni	, tapoo	<i>b,</i> 111515 <b>b</b> 1		ar may be
2.6	Chronic Health Effects:										
	Contains a petrole characterized by dr										
	concentrations above										
2.7	Target Organs:										
2.8	None reported by th Toxicological Properties:	e manufacturer.									
	None reported by th	e manufacturer.									
			3. COMP	OSITION 8		REDIEN				(mage / 2)	
						40	GIH	SURE LIN	NITS IN AIR OSHA	(ing/m°)	OTHER
						TLV	STEL	PEL	STEL	IDLH	CITER
	EMICAL NAME	(S) CAS No.	RTECS No.	EINECS No.	%	ppm	ppm	ppm	ppm	ppm	
	RIETARY INGREDIENTS	NA	NA	NA	NA	NA	NA	NA	NA	NA	
			NA	NA	NA	NA	NA	NA	NA	NA	
OLEF	IN SULFIDE	NA	NA	NA	NA	NE	NE	NE	NE	NE	
See	Section 16 for Additio	nal Definitions of Ter	rms Used.		I	1	1	I	1	1	1
	E: All WHMIS required			ated in approp	riate sec	tions base	ed on the	ANSI Z40	00.1-2004 f	ormat.	

Mid America Motorworks, 17082 N. US Hwy 45, P.O. Box 1368, Effingham, IL 62401

Prep	ared to OSHA, ACC,	ANSI, NOHSC, WHMIS 8	2001/58 EC Stand	dards	MSDS Revision:	2.0	MS	DS Revision [	Date:	01/01	/2008
				IDCT							
4.1	First Aid:		4. 1	IRST	AID						
	EYES: Check for an	nd remove contact lens cal attention if excessiv				ure wat	ter while	occasionally	y lifting an	d low	vering
	attention if tissue contaminated leatl immediately.	taminated shoes and c appears damaged o her goods. If material	r if irritation pers is injected under	sists. Th the ski	noroughly clean in, into muscle, o	contar or into t	minated the blood	clothing be dstream, see	efore reus ek medico	e. Di I atte	scard ention
	physician. Never gi	ot induce vomiting unly ve anything by mouth t orization is not expect	o a person who is	not full	y conscious. Seek	medic	al attent	ion immedia	itely.		-
		icipated conditions of u		•			•				alleu
4.2	Medical Conditions Aggro						EALTH				1
	with this product.	existing skin disorders s	noula avoia repe	area or	proiongea conta	FL	LAMM	ABILITY			1
						R	EACTI <sup>V</sup>	VITY			0
						PI	ROTEC	TIVE EQU	UIPMEN	IT	В
						ΕY	ſES	SKIN			
5.1	Flashpoint & Method:	5	. FIRE & EXP	LOSI	ON HAZARD	S					
5.1	232 °C (> 450 °F)										
5.2	Autoignition Temperature: <b>NA</b>	:									
5.3	Flammability Limits:	Lower Explosive Limit (LEL):	NA	Upper Ex	plosive Limit (UEL):	NA					
5.4	Fire & Explosion Hazards: This material can burn but will not readily ignite. This material will release vapors when heated above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point. Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, phosphorus, zinc and nitrogen. Also, depending upon the conditions of use, low concentrations of										
5.5	hydrogen sulfide co Extinguishing Methods:	an be released.								$\sim$	
5.6	Dry chemical, foam, carbon dioxide, and water fog.   Firefighting Procedures:										
	Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Avoid spraying water directly into storage containers because of danger of boilover. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.										
			6. SPI	LLS &	LEAKS						
6.1	6. SPILLS & LEAKS Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Stop spill or leak at source if safely possible. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment. Recover free liquid or cover with inert absorbent material and place into appropriate container(s) for disposal. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply. Contact appropriate local and/or provincial authorities for assistance and/or reporting requirements. For water spills, remove from surface by skimming or with suitable absorbents. If allowed by federal & provincial environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters. Consult an expert on disposal of recovered material. Ensure disposal on compliance with government requirements & secure conformity to local disposal regulations. Notify the appropriate federal & provincial authorities immediately. Take all additional action necessary to prevent & remedy the adverse effects of the spill.										

Mid America Motorworks, 17082 N. US Hwy 45, P.O. Box 1368, Effingham, IL 62401 800.500.1500 • Worldwide: 217.540.4200 • FAX: 217.540.4800 • www.mamotorworks.com • mail@mamotorworks.com

Prep	ared to OSHA, ACC,	ANSI, NOHSC, WHMIS & 2001/58 EC Standards	MSDS Revision: 2.0	MSDS Revision Date: 01/01/20				
	7. STORAGE & HANDLING							
7.1	1 Work & Hygiene Practices:							
	Use normal hygiene practices. Avoid breathing vapors. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking, or smoking.							
7.2	Storage & Handling:							
	Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in unmarked containers or storage devices.							
7.3	Special Precautions:							
	Empty containers may contain product residue. Do not pressurize, cut, heat or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.							
	containers without	commercial cleaning of reconalitoning.						
		8. EXPOSURE CONTROL & P	ERSONAL PROTECTI	ON				
8.1	Ventilation & Engineering			all the second sec				
	occupational expo	anical dilution ventilation is recommended t sure limits, whenever this material is used in a c						
8.2	or is agitated. Respiratory Protection:							
0.2	Vaporization or mis under normal use exposure levels are Protection factors	sting is not expected at ambient temperatures conditions and with adequate ventilation. If e anticipated, a NIOSH-approved organic vap vary depending upon the type of respirator	elevated airborne concentr or respirator equipped with	ations above applicable workplac a dust/mist prefilter should be use				
8.3	requirements (29 C Eye Protection:	FR 1910.134).						
0.0	Safety glasses equi	pped with side shields should be adequate pro or spraying is anticipated. Wear goggles and fa ailable.						
8.4	Hand Protection:							
	expected. Use hea	cted of chemical resistant materials such as ne t-protective gloves when handling product at ele	• •	er if frequent or prolonged contact				
8.5	Body Protection: Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection. Remove oil contaminated clothing. Launder oil contaminated clothing before reusing. Contaminated leather goods should be removed promptly and discarded.							
		9. PHYSICAL & CHEM	ICAL PROPERTIES					
9.1	Density:	0.94 g/cm³ @ 15°C						
9.2	Boiling Point:	ND						
9.3	Melting Point:	ND						
9.4	Evaporation Rate:	< 1.0 (n-butyl acetate = 1.0)						
9.5	Vapor Pressure @ 20°C:	ND						
9.6	Molecular Weight:	NA						
9.7	Appearance & Colour:	Brown Oily Liquid						
9.8	Odour Threshold:	Mild Petroleum Odor						
9.9	Solubility:	Insoluble						
9.10	pH:	ND						
9.11	Viscosity:	ND						
9.12	Coefficient Oil/Water Distribution:	ND						
9.13	Additional Information:	NA						
		10 CTADUITY •						
1		10. STABILITY &	REACTIVIT					
10.1	Stability: Stable under norma	Il conditions.						
10.2		oon monoxide, metal oxides, and trace hydrocc	irbons.					
10.3	Polymerization: Will not occur.							
10.4	Conditions to Avoid:	s, high heat, and close proximity to incompatibl	e substances					
10.5	Incompatible Substances	:	e subsidiices.					
	Strong oxidizing agents.							

Mid America Motorworks, 17082 N. US Hwy 45, P.O. Box 1368, Effingham, IL 62401

Prep	ared to OSHA, ACC,	ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 01/01/20						
	11. TOXICOLOGICAL INFORMATION							
11.1	Toxicity Data: Based on animal testing from similar materials & products, the acute toxicity of this product is expected to be: Petroleum Oils - LD <sub>50</sub> (oral, rat) > 5000 mg/kg; LD <sub>50</sub> (dermal, rabbit) > 2000 mg/kg; LD <sub>50</sub> (inhalation, rat) > 5000 mg/m <sup>3</sup> .							
11.2	Acute Toxicity:							
	Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.							
11.3	Chronic Toxicity:							
11.4	In long term studies Suspected Carcinogen:	: (up to two years) no carcinogenic effects have been reported in any animal species tested.						
	No.							
11.5	Reproductive Toxicity:							
	Mutagenicity:	This product is not expected to cause mutagenic effects in humans.						
	Embryotoxicity:	This product is not expected to cause embryotoxic effects in humans.						
	Teratogenicity:	This product is not expected to cause teratogenic effects in humans.						
	Reproductive Toxicity:	This product is not expected to cause reproductive harm in humans.						
11.6	Irritancy of Product:	NA						
11.7	Biological Exposure Indices:	NA						
11.8	Medical Recommendations:	The viscosity range of the product(s) represented by this MSDS is between 100-400 SUS at 100°F. Accordingl upon ingestion there is a low risk of aspiration. Careful gastric lavage or emesis may be considered to evacua large quantities of material. Subcutaneous or intramuscular injection requires prompt surgical debridement.						
		12. ECOLOGICAL INFORMATION						
12.1	Environmental Stability:							
	water may be har	ical effects has not been conducted on this product. However, if spilled, this product and any contaminated soil mful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleu armful or fatal to aquatic life and waterfowl.						
12.2		s: fate analysis has not been conducted on this specific product. However, plants and animals may experienc acts when coated with petroleum-based products.						
12.3	Effect on Aquatic Life:							
	Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create an anaerobic environment. This material contains phosphorus which is a controlled element for disposal in effluent waters in most sections of North America. Phosphorus is known to enhance the formation of algae. Severe algae growth can reduce oxygen content in the water possibly below levels necessary to support marine life.							
		13. DISPOSAL CONSIDERATIONS						
13.1	Waste Disposal: Dispose of in accordance with federal & provincial hazardous waste laws.							
13.2	Special Considerations:							
	If the material is unsuitable for recycling or reclamation, enclosed-controlled incineration is recommended unless otherwise prohibited by local ordinance.							
		14. TRANSPORTATION INFORMATION						
14.1	49 CFR (GND):	NOT REGULATED						
14.2	IATA (AIR):	NOT REGULATED						
14.3	IMDG (OCN):	NOT REGULATED						
14.4	TDGR (Canadian GND):	NOT REGULATED						
14.5	ADR/RID (EU):	NOT REGULATED						
14.6	MEXICO (SCT):	NOT REGULATED						

Mid America Motorworks, 17082 N. US Hwy 45, P.O. Box 1368, Effingham, IL 62401

Prep	repared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 01/01/2008						
	15. REGULATORY INFORMATION						
15.1	SARA Reporting Requirements:						
	This product does not contains any substances subject to SARA reporting requirements.						
15.2	SARA Threshold Planning Quantity:						
	NA						
15.3	TSCA Inventory Status:						
	The components of this product are listed on the TSCA inventory.						
15.4	CERCLA Reportable Quantity (RQ):						
	NA						
15.5	Other Federal Requirements:						
	NA						
15.6	Other Canadian Regulations						
	All chemical substances of this product are listed on the CEPA DSL/NDSL or are exempt from list						
	requirements. This product has been classified according to the hazard criteria of the CPR and						
	the MSDS contains all of the information required by the CPR.						
15.7	State Regulatory Information:						
	New Jersey Worker & Community Right to Know Act, N.J.A.C. 8:59-5 Labeling Information: Gear Oil						
15.8	67/548/EEC (European Union) Requirements:						
	The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC.						
	16. OTHER INFORMATION						
16.1	Other Information:						
	This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains						
	all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of						
140	this product are listed on the priorities substances list. Terms & Definitions:						
16.2							
140	Please see last page of this Material Safety Data Sheet.						
16.3	Disclaimer: This Material Safety Data Sheet complies with Health Canado's Workplace Hazardous Materials Information System (WHMIS) & U.S.						
	This Material Safety Data Sheet complies with Health Canada's Workplace Hazardous Materials Information System (WHMIS) & U.S. OSHA's Hazard Communication Standard, 29 CFR §1910.1200. To the best of ShipMate's or Lane Automotive's knowledge, the						
	information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not						
	guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only						
	to the specific product. Contact the manufacturer for additional information.						

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards	MSDS Revision: 2.0	MSDS Revision Date:	01/01/2008		
DEFINITION OF TEPMS					

## DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

#### **GENERAL INFORMATION:**

### **EXPOSURE LIMITS IN AIR:**

ACGIH	American Conference on Governmental Industrial Hygienists			
TLV	TLV Threshold Limit Value			
OSHA	U.S. Occupational Safety and Health Administration			
PEL Permissible Exposure Limit				
IDLH Immediately Dangerous to Life and Health				

#### FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person				
	whose heart has stopped receives manual chest				
	compressions and breathing to circulate blood and provide oxygen to the body.				

HEALTH

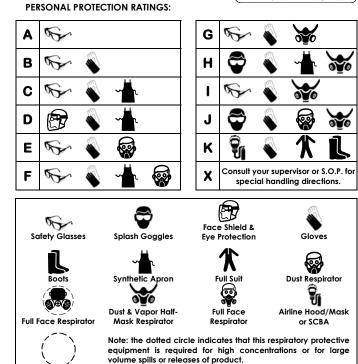
FLAMMABILITY

REACTIVITY PERSONAL PROTECTION

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

#### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard			
1	Slight Hazard			
2	Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			



#### **OTHER STANDARD ABBREVIATIONS:**

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

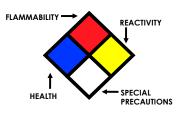
#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

#### FLAMMABILITY LIMITS IN AIR:

Autoignition	Minimum temperature required to initiate combustion
Temperature	in air with no other source of ignition
LEL Lower Explosive Limit - lowest percent of vapor in	
	volume, that will explode or ignite in the presence of
	an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of
	by volume, that will explode or ignite in the presence of
	an ignition source

#### HAZARD RATINGS:

0	Minimal Hazard			
1	Slight Hazard			
2	Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			
ACD	Acidic			
ALK	Alkaline			
COR	Corrosive			
- <del>W</del> -	Use No Water			
OX	Oxidizer			



#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the						
	exposed animals s						
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the						
	exposed animal						
ppm	Concentration expressed in parts of material per						
	million parts						
TD <sub>lo</sub>	Lowest dose to cause a symptom						
TCLo	Lowest concentration to cause a symptom						
TD <sub>io</sub> , LD <sub>io</sub> , & LD <sub>o</sub> or	D <sub>10</sub> , & LD <sub>0</sub> or Lowest dose (or concentration) to cause lethal o						
TC, TC <sub>o</sub> , LC <sub>io</sub> , & LC <sub>o</sub>	toxic effects						
IARC	IARC International Agency for Research on Cancer						
NTP	NTP National Toxicology Program						
RTECS	RTECS Registry of Toxic Effects of Chemical Substances						
BCF	Bioconcentration Factor						
TLm	TL <sub>m</sub> Median threshold limit						
log Kow or log Koc Coefficient of Oil/Water Distribution							

#### **REGULATORY INFORMATION:**

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC	Transport Canada				
EPA	U.S. Environmental Protection Agency				
DSL	Canadian Domestic Substance List				
NDSL	Canadian Non-Domestic Substance List				
PSL	Canadian Priority Substances List				
TSCA	U.S. Toxic Substance Control Act				
EU	European Union (European Union Directive 67/548/EEC)				

#### EC INFORMATION:

<b>V</b>		N	*	8	<b>X</b>	×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

Mid America Motorworks, 17082 N. US Hwy 45, P.O. Box 1368, Effingham, IL 62401