# SAFETY DATA SHEET

# **SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION**

**Product ID:** 495505

Product Name: ZenaLube Gear

 Revision Date:
 Jul 22, 2020
 Date Printed:
 Jul 23, 2020

 Version:
 2.0
 Supersedes Date:
 Jan 27, 2020

Manufacturer's Name: Zenex International

Address: 1 Zenex Circle Cleveland, OH, US, 44146

Emergency Phone: 1-800-535-5053 Information Phone Number: (440)-232-4155

Product/Recommended Uses: Open Gear Lubricant

### **SECTION 2) HAZARDS IDENTIFICATION**

# Classification

Aerosols - Category 1

Gases Under Pressure - Liquefied Gas

Aspiration Hazard - Category 1

Germ Cell Mutagenicity - Category 1B

Carcinogenicity - Category 1B

Reproductive Toxicity - Category 2

### **Pictograms**







### **Signal Word**

Danger

### **Hazardous Statements - Physical**

H222 - Extremely flammable aerosol

H280 - Contains gas under pressure; may explode if heated

### **Hazardous Statements - Health**

H304 - May be fatal if swallowed and enters airways

H350 - May cause cancer.

H340 - May cause genetic defects.

H361 - Suspected of damaging fertility or the unborn child

# **Precautionary Statements - General**

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

495505 Page 1 of 8

### **Precautionary Statements - Prevention**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.

### **Precautionary Statements - Response**

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P331 Do NOT induce vomiting.
- P308 + P313 IF exposed or concerned: Get medical attention.

#### **Precautionary Statements - Storage**

- P403 + P405 Store in a well-ventilated place. Store locked up.
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

### **Precautionary Statements - Disposal**

P501 - Dispose of contents and container in accordance with local, regional, national and international regulations.

# **SECTION 3) COMPOSITION, INFORMATION ON INGREDIENTS**

CAS	Chemical Name	% By Weight
0068476-86-8	Petroleum gases, liquefied, sweetened	15% - 25%
0000471-34-1	CALCIUM CARBONATE	11% - 24%
0008052-42-4	BITUMENS	9% - 20%
Proprietary	Grease lubricant for gear No. 4803	9% - 19%
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	6% - 14%
0064741-41-9	MINERAL SPIRITS	4% - 8%
0000110-54-3	HEXANE	2% - 5%
1372804-76-6	Alkanes, C14-16, chloro	1.3% - 3%
0000108-65-6	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	0.1% - 1.2%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

### **SECTION 4) FIRST-AID MEASURES**

#### Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed/feel unwell/concerned: Call a POISON CENTER or doctor.

Eliminate all ignition sources if safe to do so.

### **Eye Contact**

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

### **Skin Contact**

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

#### Ingestion

Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.

### Most Important Symptoms/Effects, Acute and Delayed

495505 Page 2 of 8

No data available.

#### Indication of Immediate Medical Attention and Special Treatment Needed

No data available.

### **SECTION 5) FIRE-FIGHTING MEASURES**

### **Suitable Extinguishing Media**

Dry chemical, foam, carbon dioxide. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. 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. Sand or earth may be used for small fires only.

Do not direct a solid stream of water or foam into hot, burning pools. This may result in frothing and increased fire intensity.

#### **Unsuitable Extinguishing Media**

No data available.

#### **Specific Hazards in Case of Fire**

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Product is highly flammable and forms explosive mixtures with air, oxygen, and all oxidizing agents. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a build up of internal pressures. Cool with water.

Empty Containers retain product residue which may exhibit hazards of material; therefore do not pressurize, cut, glaze, weld or use for any other purposes.

Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapors.

#### **Fire-Fighting Procedures**

Isolate immediate hazard area and keep unauthorized personnel out. 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. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### **Special Protective Actions**

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

### **SECTION 6) ACCIDENTAL RELEASE MEASURES**

#### **Emergency Procedure**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

### Recommended Equipment

Wear liquid tight chemical protective clothing in combination with positive pressure self-contained breathing apparatus (SCBA).

#### **Personal Precautions**

Avoid breathing vapors. Ventilate area. Wear safety glasses and gloves.

#### **Environmental Precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

#### Methods and Materials for Containment and Cleaning up

Absorb liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

### **SECTION 7) HANDLING AND STORAGE**

#### General

Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp objects into opening on top of can. Do not spray in eyes. Do not take internally.

#### **Ventilation Requirements**

Use in a well-ventilated place.

495505 Page 3 of 8

### **Storage Room Requirements**

Store and use in a cool, dry, well-ventilated area. Do not store above 120°F. See product label for additional information.

### **SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Eye Protection**

Wear safety glasses with side shields. Eyewash stations and showers should be available in areas where this material is used and stored.

#### **Skin Protection**

Use solvent-resistant protective gloves for prolonged or repeated contact.

# **Respiratory Protection**

Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use an approved air line respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

### **Appropriate Engineering Controls**

Ventilation should be sufficient to prevent inhalation of any vapors.

Chemical Name	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)
BITUMENS							0.5	
CALCIUM CARBONATE	[15]; [5 (a)];					1		
HEXANE	1800	500				1		50
ISOPARAFFINI C PETROLEUM DISTILLATE	2000	500				1	[(L)[N159](L) [N800]]; [5 (I) [N159]5 (I) [N800]];	(L)[N159](L) [N800]
MINERAL SPIRITS	2000	500				1	[(L)]; [5 (I)];	(L)
Petroleum gases, liquefied, sweetened	2000	500				1		

Chemical Name	NIOSH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)
BITUMENS				A4	URT & eye irr	A4; BEI		
CALCIUM CARBONATE							10,5a	
HEXANE					CNS impair; peripheral neuropathy; eye irr	Skin; BEI	180	50
ISOPARAFFINI C PETROLEUM DISTILLATE				[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];	URT irr [N159]URT irr [N800]	[A2[N159]A2 [N800]]; [A4 [N159]A4 [N800]];		
MINERAL SPIRITS				[A2]; [A4];	URT irr	[A2]; [A4];		
Petroleum gases, liquefied, sweetened								

Chemical Name	NIOSH STEL (mg/m3)	OSHA STEL (ppm)	NIOSH Carcinogen
BITUMENS			1
CALCIUM CARBONATE			
HEXANE			

495505 Page 4 of 8

ISOPARAFFINI C PETROLEUM DISTILLATE		
MINERAL SPIRITS		
Petroleum gases, liquefied, sweetened		

<sup>(</sup>C) - Ceiling limit, (L) - Exposure by all routes should be carefully controlled to levels as low as possible, A1 - Confirmed Human Carcinogen, A3 -Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation, repro - reproductive, URT - Upper respiratory tract

# **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

### **Physical and Chemical Properties**

Density	7.52372 lb/gal
Density VOC	3.40349 lb/gal
% VOC	45.23680%

Dark Brown/Black Liquid Appearance

Odor Threshold N.A.

Hydrocarbon

Odor Description рΗ N.A. Water Solubility N.A. Flammability N.A. Vapor Pressure N.A. Flash Point N.A. Viscosity N.A. Lower Explosion Level N.A. Upper Explosion Level N.A. Vapor Density N.A. Melting Point N.A. Freezing Point N.A. Low Boiling Point N.A. High Boiling Point N.A. Decomposition Pt N.A.

# **SECTION 10) STABILITY AND REACTIVITY**

### **Stability**

Stable under normal storage and handling conditions.

#### **Conditions to Avoid**

Auto Ignition Temp

**Evaporation Rate** 

Avoid heat, sparks, flame, high temperature and contact with incompatible materials.

N.A.

N.A.

Dropping containers may cause bursting.

# **Incompatible Materials**

Avoid strong oxidizers, reducers, acids, and alkalis.

### **Hazardous Reactions/Polymerization**

Will not occur.

495505 Page 5 of 8 No data available.

### **SECTION 11) TOXICOLOGICAL INFORMATION**

#### **Skin Corrosion/Irritation**

No data available.

#### **Likely Route of Exposure**

Inhalation, ingestion, skin absorption.

#### **Serious Eye Damage/Irritation**

No data available.

#### Carcinogenicity

May cause cancer.

#### **Germ Cell Mutagenicity**

May cause genetic defects.

#### **Reproductive Toxicity**

Suspected of damaging fertility or the unborn child

#### Respiratory/Skin Sensitization

No data available.

#### **Specific Target Organ Toxicity - Single Exposure**

No data available.

### **Specific Target Organ Toxicity - Repeated Exposure**

No data available.

#### **Aspiration Hazard**

May be fatal if swallowed and enters airways

#### **Acute Toxicity**

No data available.

#### Potential Health Effects - Miscellaneous

#### 0000091-20-3 NAPHTHALENE

Is an IARC, NTP or OSHA carcinogen. Tests in some laboratory animals demonstrate carcinogenic activity. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: kidneys, liver. Recurrent overexposure may result in liver and kidney injury. WARNING: This chemical is known to the State of California to cause cancer.

#### 0000100-41-4 ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. WARNING: This chemical is known to the State of California to cause cancer.

### 0000108-88-3 TOLUENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

#### 0008052-42-4 BITUMENS

Is an IARC carcinogen. Occupational exposures to straight-run bitumens and their emissions during road paving are possibly carcinogenic to humans (Group 2B)

#### 0008052-42-4 BITUMENS

 $LC50 \ (Rodent - rat, \ Inhalation) : > 94.4 \ mg/m3, \ Toxic \ effects : Details \ of \ toxic \ effects \ not \ reported \ other \ than \ lethal \ dose \ value.$ 

LD50 (Rodent - rat, Oral): >5000 mg/kg, Toxic effects: Gastrointestinal - hypermotility, diarrhea.

### 0000110-54-3 HEXANE

LC50 (male rat): 38500 ppm (4-hour exposure); cited as 77000 ppm (271040 mg/m3) (1-hour exposure) (15)

LC50 (rat): 48000 ppm (4-hour exposure) (16)

LC50 (rat): 73680 ppm (260480 mg/m3) (4-hour exposure) (n-hexane and isomers) (1,3)

495505 Page 6 of 8

LD50 (oral, 14-day old rat): 15840 mg/kg (3) LD50 (oral, young rat): 32340 mg/kg (3) LD50 (oral, adult rat): 28700 mg/kg (3,16)

# **SECTION 12) ECOLOGICAL INFORMATION**

#### **Toxicity**

Harmful to aquatic life with long lasting effects.

### **Persistence and Degradability**

No data available.

#### **Bio-Accumulative Potential**

No data available.

### **Mobility in Soil**

No data available.

#### **Other Adverse Effects**

No data available.

### Results of the PBT and vPvB assessment

No data available.

# **SECTION 13) DISPOSAL CONSIDERATIONS**

### **Waste Disposal**

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

### **SECTION 14) Transport Information**

	U.S. DOT Information	IMDG Information	IATA Information
UN number:	UN1950	UN1950	UN1950
Proper shipping name:	Aerosols	Aerosols	Aerosols, non-flammable
Hazard class:	2.2	2.2	2.2
Packaging group:	N.A.	N.A.	N.A.
Note / Special Provision:	(LTD QTY)	(LTD QTY)	(LTD QTY)

# **SECTION 15) REGULATORY INFORMATION**

CAS	Chemical Name	% By Weight	Regulation List
0068476-86-8	Petroleum gases, liquefied, sweetened	15% - 25%	SARA312, TSCA, OSHA
0000471-34-1	CALCIUM CARBONATE	11% - 24%	SARA312, TSCA, OSHA
0008052-42-4	BITUMENS	9% - 20%	SARA312, TSCA, ACGIH
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	11% - 24%	SARA312, VOC,TSCA, ACGIH, OSHA
0064741-41-9	MINERAL SPIRITS	4% - 8%	SARA312, VOC,TSCA, ACGIH, OSHA
0000110-54-3	HEXANE	2% - 5%	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, ACGIH, California Proposition 65 Male

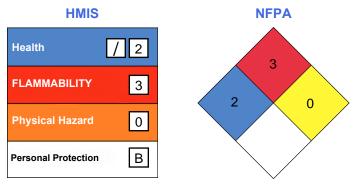
495505 Page 7 of 8

1372804-76-6	Alkanes, C14-16, chloro	1.3% - 3%	SARA312, TSCA
0000108-65-6	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	0.1% - 1.2%	SARA312, VOC, TSCA
0000098-82-8	CUMENE	Trace	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, RCRA, ACGIH, California Proposition 65 Cancer
0000091-20-3	NAPHTHALENE	Trace	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, RCRA, ACGIH, California Proposition 65 Cancer
0000100-41-4	ETHYLBENZENE	Trace	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, ACGIH, California Proposition 65 Cancer
0000071-43-2	BENZENE	Trace	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, RCRA, ACGIH, California Proposition 65 Cancer - Developmental - Male
0000108-88-3	TOLUENE	Trace	SARA313, CERCLA, HAPS, SARA312, VOC, TSCA, RCRA, ACGIH, California Proposition 65 Developmental

# **SECTION 16) OTHER INFORMATION**

#### **Glossary**

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.



(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

# **DISCLAIMER**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

495505 Page 8 of 8