



PRODUCT CODE

8014110080900

8014110851400

Liquid Guardian High Performance Gear Oils

SAFETY DATA SHEET

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: Liquid Guardian Gear Oils

Product Grades: 80W-90, 85W-140

Synonyms: Gear Oil

1.2 RECOMMENDED USE AND RESTRICTIONS ON USE

Use of the substance/mixture: Lubricant

Restrictions on use: No additional information available

1.3 NAME, ADDRESS, AND TELEPHONE OF THE RESPONSIBLE PARTY

Christensen Inc.

1060 Jadwin Ave. Richland, WA 99352

(509) 882-2115

www.ChristensenUSA.com

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Number: 1-800-424-9300 CHEMTREC

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (GHS-US)

Not Classified

2.2 GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

GHS-US Labeling

No labeling applicable

2.3 OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION

No additional information available

2.4 UNKNOWN ACUTE TOXICITY (GHS_US)

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Not applicable

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3.2 MIXTURE

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%)	(CAS-No.) 64742-54-7	0 - 50	Asp. Tox. 1, H304
Long-chain alkyl amine (HMIRA Reg. No. 9939; Filing date 4/11/2016)	(CAS-No.) trade secret	0.1 - 0.9	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:gas), H330 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

* Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements: (see section 16)

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary.

Skin Contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin thoroughly with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS BOTH ACUTE AND DELAYED

Symptoms/effects after skin contact: Prolonged or repeated contact may cause skin to become dry or cracked.

4.3 IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NECESSARY

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA

Suitable Extinguishing Media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable Extinguishing Media: Do not use a heavy water stream.

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Fire Hazard: Burning produces irritating, toxic and noxious fumes.

Reactivity: No dangerous reactions known.

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5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Fire Fighting Instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear recommended personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

General Measures: Avoid all eye and skin contact and do not breathe vapor and mist. Use personal protective equipment as required.

6.1.1 FOR NON-EMERGENCY PERSONNEL

Protective Equipment: Refer to section 8.2.

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2 FOR EMERGENCY PERSONNEL

Protective Equipment: Refer to section 8.2.

Emergency Procedures: Ventilate area.

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent entry to sewers and public waters.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Collect spillage. Minimise generation of dust. Store away from other materials.

6.4 REFERENCE TO OTHER SECTIONS

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene Measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage Conditions: Keep only in the original container in a cool well ventilated place.

Incompatible Products: Strong bases. Strong acids. Strong oxidizers.

Incompatible Materials: Sources of ignition. Direct sunlight.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)		
ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
ACGIH	ACGIH STEL (mg/m ³)	10 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³

Long-chain alkyl amine (HMIRA Reg. No. 9939; Filing date 4/11/2016) (trade secret): Not applicable

8.2 EXPOSURE CONTROLS

Appropriate Engineering Controls: Avoid creating mist or spray. Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.

8.3 INDIVIDUAL PROTECTION MEASURES/PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear suitable gloves resistant to chemical penetration. nitrile rubber gloves. natural rubber gloves

Eye protection: Chemical goggles or safety glasses

Respiratory protection: In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges.

Other information: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Red
Odor	Petroleum
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	No data available
Flash Point	> 222 °C
Relative evaporation rate (butylacetate=1)	No data available
Flammability (solid, gas)	Non flammable
Vapor Pressure	No data available
Relative Vapor Density at 20 °C	No data available

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9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES - CONT'D

Relative Density	No data available
Solubility	No data available
Log Pow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	140 - 415 mm ² /s @ 40°C
Viscosity, dynamic	No data available
Explosive limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 OTHER INFORMATION

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No dangerous reactions known.

10.2 CHEMICAL STABILITY

Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous polymerization will not occur.

10.4 CONDITIONS TO AVOID

Direct sunlight. Extremely high or low temperatures.

10.5 INCOMPATIBLE MATERIALS

Strong acids. Strong bases. Strong oxidizers.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide. Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not available

Acute toxicity (inhalation): Not classified

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11.1 INFORMATION ON TOXICOLOGICAL EFFECTS - CONT'D

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.53 mg/l/4h

Long-chain alkyl amine (HMIRA Reg. No. 9939; Filing date 4/11/2016) (trade secret)	
LD50 oral rat	612 mg/kg
LD50 dermal rat	251 mg/kg
LC50 inhalation rat (ppm)	157 ppm/4h
ATE (oral)	612 mg/kg bodyweight
ATE (dermal)	251 mg/kg bodyweight
ATE (gases)	157 ppmv/4h

Skin Corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or Skin Sensitization: Not classified. (Long-chain alkyl amine not sensitizing <1.5%)

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Viscosity, kinematic: 140 - 415 mm²/s @ 40°C

Likely routes of exposure: Inhalation. Skin and eye contact.

Symptoms/effects after skin contact: Prolonged or repeated contact may cause skin to become dry or cracked.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)

EC50 crustacea: > 10000 mg/l

12.2 PERSISTENCE AND DEGRADABILITY

GearTec SAE 80W-90, GearTec SAE 85W-140, GearTec SAE 90

Persistence and degradability: Not established.

12.3 BIOACCUMULATIVE POTENTIAL

GearTec SAE 80W-90, GearTec SAE 85W-140, GearTec SAE 90

Bioaccumulative potential: Not established.

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12.4 MOBILITY IN SOIL

No additional information available.

12.5 OTHER ADVERSE EFFECTS

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 DISPOSAL METHODS

Sewage Disposal Recommendations: Do not dispose of waste into sewer.

Waste Disposal Recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

14.1 DEPARTMENT OF TRANSPORTATION Not regulated for transport

14.2 TRANSPORT BY SEA Not regulated for transport

14.3 AIR TRANSPORT Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US FEDERAL REGULATIONS

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2 INTERNATIONAL REGULATIONS

CANADA

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Long-chain alkyl amine (HMIRA Reg. No. 9939; Filing date 4/11/2016) (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-REGULATIONS

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Long-chain alkyl amine (HMIRA Reg. No. 9939; Filing date 4/11/2016) (trade secret)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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15.2 INTERNATIONAL REGULATIONS - CONT'D

NATIONAL REGULATIONS

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)

Long-chain alkyl amine (HMIRA Reg. No. 9939; Filing date 4/11/2016) (trade secret)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

15.3 U.S. STATE REGULATIONS

WARNING: This product can expose you to Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL) (64742-54-7)
Ethylene oxide(75-21-8)	X	X	X	X	2 µg/day	20 µg/day
Propylene oxide(75-56-9)	X					
Ethylene oxide(75-21-8)	X				30 µg/day	
Ethylene oxide(75-21-8)	X				Not determined	

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SECTION 16: OTHER INFORMATION

Revision Date: 03/18/2025

Data Sources: European Chemicals Agency (ECHA) C&L Inventory database.

Accessed at echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database

Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory.

Accessed at www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html

Other information: None.

FULL TEXT OF H-STATEMENTS

H304	May be fatal if swallowed and enters airways.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

FULL TEXT OF H-STATEMENTS

ATE	Acute Toxicity Estimate
CAS	(Chemical Abstracts Service) number
EC50	Environmental Concentration associated with a response by 50% of the test population
GHS	Globally Harmonized System (of Classification and Labeling of Chemicals)
LD50	Lethal Dose for 50% of the test population
STEL	Short Term Exposure Limits
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WEL	Workplace Exposure Limit

NFPA health hazard: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard: 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

Indication of changes: Composition/information on ingredients. Classification.



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PARTY RESPONSIBLE FOR THE PREPARATION OF THIS DOCUMENT

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.