

Premium (LS) Gear Lubricant

SDS - Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: ECOSE® Premium (LS) Gear Lubricant 80W-90, 85W-140

Other means of identification: Automotive Gear Oil

SDS Number: 532110

CAS Number: Blend

CHEMTREC: 1-800-424-9300 (For emergencies)

Supplier:

Nu-Tier Brands, Inc.
8282 S. Memorial Dr., Suite 302
Tulsa, OK 74133
1-877-771-5823 (For Product Information)
www.nu-tierbrands.com

2. HAZARDS IDENTIFICATION

Classified Hazards

GHS Phrases:

- H315 – Causes skin irritation
- H320 – Causes eye irritation
- H412 – Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

- P302+35- - IF ON SKIN: Gently wash with soap and water
- P305+351+338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P273 – Avoid release to the environment

As defined under SARA 311 and 312, this product contains materials that are acute, chronic hazards.

Label Elements



GHS Signal Word: WARNING
GHS Classifications:
Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 B
Environmental, Hazards to the aquatic environment, Chronic, 3

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Concentration
Hydrotreated heavy paraffinic petroleum oil	64742-65-0	40-60%
Residual oils, solvent dewaxed petroleum	64742-62-7	40-98%
Long chain alkyl amine	Proprietary	0.1-0.3%
Alkyl Phosphate (I)	Proprietary	0.2-0.5%
Alkyl Phosphate (II)	Proprietary	0.1-0.3%
Long chain alkenyl amine	Proprietary	0.2-0.7%
Long chain alkyl phosphonate	Proprietary	0.1-0.2%

4. FIRST AID MEASURES

INHALATION FIRST AID: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

SKIN CONTACT FIRST AID: Wash with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if needed.

EYE CONTACT FIRST AID: Flush with water for several minutes. If effects occur, consult a physician.

INGESTION FIRST AID: Rinse mouth with water. If symptoms develop, obtain medical attention.

5. FIREFIGHTING MEASURES

NFPA 704 Hazard Class

Health: 1

Flammability: 1

Instability: 0



0 (Minimal)

1 (Slight)

2 (Moderate)

3 (Serious)

4 (Severe)

Flash Point: 250°C (482°F)

Flash Point Method: COC

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.

Specific hazards arising from the chemical:

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.

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

Special protective actions for firefighters: 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 immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors 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 Property Including Flash Point

6. ACCIDENTAL RELEASE MEASURES

Contain spilled material.

Collect in suitable and properly labeled containers.

Pick up excess with inert absorbent material.

Keep away from drains and ground water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Avoid contact with eyes, skin, or clothing.

Keep away from sources of ignition.

Handle with care and avoid spillage on the floor (slippage).

STORAGE REQUIREMENTS:

Keep away from sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

PERSONAL PROTECTIVE EQUIPMENT:

Use of safety glasses and gloves are recommended.



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Chemical Name	ACGIH	OSHA	Other
Residual oils, petroleum, solvent-dewaxed	TWA: 5mg/m ³ STEL: 10mg/m ³ As Oil Mist, if Generated	TWA: 5mg/m ³ As Oil Mist, if Generated	
Distillates, petroleum, solvent-refined heavy paraffinic	TWA: 5mg/m ³ STEL: 10mg/m ³ As Oil Mist, if Generated	TWA: 5mg/m ³ As Oil Mist, if Generated	
Residual oils, petroleum, solvent-refined	TWA: 5mg/m ³ STEL: 10mg/m ³ As Oil Mist, if Generated	TWA: 5mg/m ³ As Oil Mist, if Generated	
Distillates, petroleum, hydrotreated heavy paraffinic	TWA: 5mg/m ³ STEL: 10mg/m ³ As Oil Mist, if Generated	TWA: 5mg/m ³ As Oil Mist, if Generated	

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Data represents typical values and are not intended to be specifications.

Appearance: Amber
Physical State: Liquid
Odor: Sulfur
Viscosity: 14.0-28.0 cSt @ 100°C; 131-356 cSt @40°C
Specific Gravity: 0.88 – 0.90 @ 60°F (15.6°C)
Bulk Density: 7.33 – 7.49 lbs/gal
Flash Point: 482°F / 250°C
Test Method: COC

10. STABILITY AND REACTIVITY

REACTIVITY: Not chemically reactive.

CHEMICAL STABILITY: Stable under normal ambient and anticipated conditions of use.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous reactions not anticipated.

CONDITIONS TO AVOID: Avoid all possible sources of ignition. Extended exposure to high temperatures can cause decomposition.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents and strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Not anticipated under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Repeated skin contact with this product may cause dermatitis or an oil acne.

No test data available on product.

No component is listed as a carcinogen, mutagen, or teratogen.

LD50/LC50 – No data available.

12. ECOLOGICAL INFORMATION

Avoid exposing to the environment, no specific aquatic data available.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

Do not flush to surface water or drains.



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14. TRANSPORTATION INFORMATION

Not regulated by DOT

15. REGULATORY INFORMATION

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

16. OTHER INFORMATION

The data in this Safety Data Sheet relates only to the specific material designated herein.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Nu-Tier Brands, Inc. The data on this sheet are related only to the specific material designated herein. Nu-Tier Brands, Inc. assumes no legal responsibility for use or reliance upon these data.

END OF SDS