

Safety Data Sheet

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Version 2

SECTION 1. IDENTIFICATION

Product Identifier**Product Names** GL-5 Synthetic Automotive Gear Oil LS**Other means of identification****SDS #****Product Grades** 75W-90, 75W140, 80W-140**Recommended use of the chemical and restrictions on use****Recommended Use** Synthetic automotive gear oils**Details of the supplier of the safety data sheet****Supplier Address**Hon-R Chemicals
16950 Wallisville Rd.
Houston, TX 77049**Emergency Telephone Number****Company Phone Number** 1-832-376-4500
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

SECTION 2. HAZARDS IDENTIFICATION

Classification

Not Classified.

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

GHS Label Elements

Hazard pictograms	None	Physical State	Liquid	Odor	Mild petroleum
Signal Word	None				
Appearance	Clear amber				
Hazard statement	None				

Precautionary statements

General	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	Not applicable
Response	Not applicable
Storage	Not applicable
Disposal	Not applicable
Hazards not otherwise classified (HNOC)	Defatting to the skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Petroleum oil lubricant base stock with proprietary performance additives mixture.

Chemical Name	CAS No*	Weight-%*
Base Oil - Highly Refined Hydrotreated Heavy Paraffinic distillate	64742-54-7	75 – 90
Additive Mixture	Proprietary	10 – 25

This product does not contain known hazardous materials at the $\geq 1\%$ level or known carcinogens at the $\geq 0.1\%$ level as defined by 29 CFR 1910.1200.

* If Chemical Name/CAS No is "Proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

First Aid Measures

General Advice	No specific first aid measures are required. Get medical attention if irritation develops and persists.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if irritation develops and persists.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation or allergic reaction develops and persists.
Inhalation	In case of inhalation of decomposition products in a fire, symptoms may be delayed. If inhaled, remove to fresh air. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.
Ingestion	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing.

Most important symptoms and effects

See Section 11 for more detailed information on health effects and symptoms.

Symptoms and Effects	Personnel with pre-existing skin disorders should avoid contact with this product. Under normal use conditions, no adverse effects to health are known.
Eye Contact	Not expected to cause prolonged or significant eye irritation.
Skin Contact	Contact with skin is not expected to cause prolonged or significant irritation. Contact with skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.
Inhalation	Not expected to be harmful if inhaled. Contains petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficult breathing.
Ingestion	Not expected to be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media

Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special hazards arising from the chemical

Fire Hazard	Not flammable but will support combustion.
Explosion Hazard	Product is not explosive
Reactivity	Hazardous reactions will not occur under normal conditions.

Protective equipment and precautions for firefighters

Precautionary Measure Fire	Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.
Firefighting Instructions	Use water spray or fog for cooling exposed containers.
Protection During Firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products	Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons.
Other Information	Refer to Section 9 for flammability properties.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For Non-Emergency Personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
For Emergency Responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. See also the information in "For non-emergency personnel".
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for ecological information.

Methods and material for containment and cleaning up

Small Spills	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large Spills	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

NOTE: If RQ (Reportable Quantity) is exceeded or if spills enter a body of water, report immediately to the USEPA's National Response Center at (800) 424-8802. Check with your local and state regulators regarding their reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Protective Measures	Eye protection and face shield should be used if material is used under conditions that increase the chances of splattering. Put on appropriate personal protective equipment. Keep out of reach of children.
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Advice on General Occupational Hygiene

Do not get in eyes, on skin or on clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, strong oxidizing agents (see Section 10) and food and drink. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Avoid contaminating soil or releases into sewage or drainage systems and bodies of water.

Bulk Material Handling

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Base Oil – Highly Refined Hydrotreated Heavy Paraffinic Distillate 64742-54-7	TWA: 5 mg/m ³ (mist) STEL: 10 mg/m ³ (mist)	TWA: 5 mg/m ³ (mist) STEL: none estab	TWA: 5 mg/m ³ (mist) STEL: 10 mg/m ³ (mist)

Exposure Controls

Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment

Protective goggles. Gloves.



Materials for Protective Clothing

Chemically resistant materials and fabrics.

Hand Protection

Wear chemically resistant protective gloves.

Eye Protection

Chemical goggles or safety glasses.

Skin and Body Protection

Wear suitable protective clothing.

Respiratory Protection

Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls

Do not allow the product to be released into the environment.

Consumer Exposure Controls

Do not eat, drink or smoke during use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State Liquid
Appearance Clear amber
Odor Slight Hydrocarbon
Odor Threshold Not determined

<u>Property</u>	<u>Values</u>
pH	Not determined
Evaporation Rate	Not determined
Melting Point	Not determined
Boiling Point	Not determined
Flash Point	336 - 345F
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Flammability (solid, gas)	Not determined
Lower Flammable Limit	Not determined
Upper Flammable Limit	Not determined
Vapor Pressure	Not determined
Relative Vapor Density at 20 °C	Not determined
Relative Density	Not determined
Specific Gravity	0.85 – 0.87
Solubility	Negligible
Partition Coefficient: N-Octanol/Water	Not determined
Viscosity	Not determined
Viscosity, Kinematic	16.7 - 27.7 cSt @ 100C
Explosive Properties	Product is not explosive
Explosion Data – Sensitivity to Mechanical Impact	Not expected to present an explosion hazard due to mechanical impact
Explosion Data – Sensitivity to Static Discharge	Not expected to present an explosion hazard due to static discharge

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

Oxidizing agents and open flames.

Hazardous Decomposition Products

May include: Fumes, Oil vapors, Smoke, Carbon Oxides (including carbon monoxide and carbon dioxide), Aldehydes, Nitrogen oxides, and incomplete combustion products.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Substance Mixture

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Base Oil - Highly Refined Hydrotreated Heavy Paraffinic distillate 64742-54-7	>15000 mg/Kg (rat)	>5000 mg/Kg (rabbit)	2.18 mg/l (rat) 4h

Aspiration hazard

Not expected to be an aspiration hazard.

Skin Corrosion/Irritation

No known significant effects or critical hazards.

Serious Eye Damage/Irritation

No known significant effects or critical hazards.

Skin Sensitization

No known significant effects or critical hazards.

Respiratory Sensitization

No known significant effects or critical hazards.

**Specific Target Organ Toxicity
(Single Exposure) - STOT-SE**

No known significant effects or critical hazards.

**Specific Target Organ Toxicity
(Repeated Exposure) – STOT-RE:**

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Germ Cell Mutagenicity

No known significant effects or critical hazards.

Reproductive Toxicity

No known significant effects or critical hazards.

**Information on Toxicity Effects of Compounds
Lubricant Base Oil (Petroleum)**

None of the oils in this product requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

SECTION 12. ECOLOGICAL INFORMATION

The information is based on data available for the material, the components of the material, and similar materials.

Ecotoxicity

No testing has been performed by the manufacturer. Ecotoxicity hazard is based on an evaluation of data for the components or a similar material. Not expected to be harmful to aquatic organisms.

Mobility

Base oil component – Low solubility and floats and is expected to migrate from water to land. Expected to partition to sediment and wastewater solids.

Soil/water Partition coefficient (Koc)

Not determined

Persistence and Degradation**Biodegradation**

The material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

Bioaccumulative potential**Bioaccumulation**

This product is not expected to bioaccumulate through food chain in the environment.

Other adverse effects

No known significant effects or critical hazards.

Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material supplied.

Waste Treatment Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Consult the appropriate state, regional, or local regulations for additional requirements. The generation of waste should be avoided or minimized wherever possible.

Product waste Significant quantities of waste product residues should not be disposed of via the sanitary sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Incineration or landfill should only be considered when recycling is not feasible. Oil collection services are available for used oil recycling.

Contaminated Packaging Empty containers or liners may retain some product residues and could pose a potential fire and explosion hazard. Do not cut, puncture, or weld containers.

Other Information Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

General Information Petroleum Lubricating oil - Not regulated.

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

Special Precautions for User Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

SARA Section 311/312 Hazard Classes	Not Classified
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US State Regulations

None noted

Canadian Regulations

WHMIS Classification	Not Classified
Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability/Reactivity
	0	0	0
HMIS	Health Hazards	Flammability	Physical Hazards
	1	0	0

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; * - Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for

HMIS or Hazardous Material Identification System).

Key to abbreviations:

OSHA = Occupational Safety and Health Administration
ACGIH= American Conference of Industrial Hygienists
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service Registry Number
cSt = Centistroke (mm²/s)
GHS = Global Harmonized System of Classification and Labeling
of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient
OEL = Occupational Exposure Limit
SDS = Safety Data Sheet
STEL = Short term exposure Limit
UN = United Nations
UN Number = United Nations Number, a four-digit number assigned by the
United Nations Committee of Experts on the Transportation of
Dangerous Goods

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Revision Note New format. All Sections. First version in OSHA SDS format. Updated supplier logo and contact details.

Disclaimer

All reasonably practicable steps have been taken to ensure the information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

End of Safety Data Sheet