

# MSDS

## MATERIAL SAFETY DATA SHEET



### DURAGEAR LS SAE 90 GL-5

JAN 2020 - PRODUCT CODE **88849**

#### COMPANY DETAILS

**Company Name** Harden Oil Company, HOCL Oils  
**Address** 19A Stephens Road, Queanbeyan, NSW, 2620  
**Telephone Number** 02 6284 4966  
**Fax Number** 02 6284 4355  
**Emergency Phone Number** **02 6284 4966**

#### Section 1: PRODUCT IDENTIFICATION

**Product Name** DuraGear LS SAE 90  
**Product Description** Synthetic Base Oils with Complex Additives  
**UN Proper Shipping Name** N/A  
**Recommended Use** High Performance Limited Slip Differential Gear Oil

#### Section 2: HAZARDS IDENTIFICATION

**Precautions** **Keep out of reach of children.**  
**Avoid release to the environment.**

**NOHSC Classification** Not classified as hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC).

**ADG Classification** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
**Note:** Combustible materials may be classified as Class 9: miscellaneous dangerous goods if transported with flammable materials. See ADG code for further information.

**SUSDP Classification** Not scheduled

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS NUMBER	Proportion
Hydrotreated Synthetic Base Oils	64742-54-7	70 - 90%
Lubricant Additive Complex	Confidential	10 - 30%

#### Section 4: FIRST AID MEASURES

**Swallowed** DO NOT INDUCE VOMITING. Immediately wash out mouth with water, and then give plenty of water to drink. Seek medical attention.

**Eye** Rinse eyes immediately with water for at least 15 minutes. In case of irritation, seek medical advice.

**Skin** Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If irritation develops and persists, seek medical attention.

**Inhaled** Remove the patient to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. If irritation develops, seek medical attention.

**First Aid Facilities** No special facilities required.

**Advice to Doctor** Treat symptomatically.

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### Section 5: FIRE FIGHTING MEASURES

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<b>Fire/Explosion Hazard</b>	Classified as C2 (Combustible liquid)
<b>Extinguishing Media</b>	<b>Use Foam, Dry Powder or CO2 (Carbon Dioxide) Fire Extinguisher. Do not use direct stream of water; product will float, possibly re-igniting.</b> Use water as a fog or spray to cool fire exposed containers.
<b>Fire Fighting Precautions</b>	Self-Contained Breathing Apparatus and full protective clothing should be worn
<b>Flash Point (COC)</b>	235°C
<b>Hazchem Code</b>	Not Applicable
<b>Hazards from Combustion Products</b>	Oxides of carbon.

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### Section 6: ACCIDENTAL RELEASE MEASURES

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<b>Spills Procedure</b>	<b>SMALL – 20 LITRES OR LESS</b> Soak up with inert oil absorbent. Arrange for disposal through an approved facility.  <b>LARGE – GREATER THAN 20 LITRES</b> Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective clothing and equipment to minimize exposure. If possible, contain the spill. Place inert absorbent material such as vermiculite, sand or dirt onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labeled container. If large quantities of this material enter the waterways contact the Environment Protection Authority, local government statutory authority, or your local Waste Management Authority.
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### Section 7: HANDLING AND STORAGE

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<b>Handling</b>	Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact, maintain high standards of personal hygiene ie, washing hands prior to eating, drinking or going to the toilet. Build-up of mist in the working atmosphere must be prevented. Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue may ignite with explosive violence if heated sufficiently. Do not pressurize or expose to open flame or heat. Keep container closed and bung in place.
<b>Storage Precautions</b>	Classified as a combustible substance for storage and handling purposes. Store in a cool, dry, well-ventilated area, out of direct sunlight. Avoid sparks, flames and other ignition sources. Store away from incompatible materials such as materials that support combustion (oxidizing materials). Reference should be made to Australian Standard AS 1940 – The Storage and Handling of flammable and combustible liquids.

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### Section 8: STABILITY AND REACTIVITY

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<b>Stability</b>	Stable under conditions of storage and handling.
<b>Conditions to Avoid</b>	Elevated temperatures and sources of ignition.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Oxides of carbon and nitrogen, other toxic fumes and smoke.
<b>Hazardous Reactions</b>	No hazardous polymerization will occur.

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### Section 9: ECOLOGICAL INFORMATION

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<b>Eco-toxicity</b>	Not expected to be harmful to aquatic organisms.
<b>Persistence and Degradability</b>	Expected to be biodegradable.
<b>Mobility</b>	Low solubility and floats, may form a film on water surfaces impairing Oxygen transfer, is expected to migrate from water to land.

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### Section 10: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However, Exposure standards and ACGIH limits for the constituents are listed below.

SUBSTANCE	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Oil mist, mineral	-	3	-	10
Paraffinic Oil		3		10

Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short-term exposure limit (STEL)

No biological limit allocated.

#### Biological Limit Values

#### Engineering Control

The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or otherwise, to maintain ambient concentration below the recommended threshold exposure limits.

#### Respirator Type

Avoid breathing vapours or mists. Select and use respirators in accordance with AS/NZ 1715/1716. When vapours are generated, the use of the following is recommended: Half face piece respirator with dust/mist filters. The appropriate filter capacity and respirator type will depend on exposure levels encountered.

#### Eye Protection

#### Glove Type

#### Clothing

Chemical safety goggles are recommended. If handled hot, a full face shield should be worn. Use of impervious rubber gloves is recommended.

Clothing should be suitable to avoid product contacting the skin on a prolonged or repeated basis.

### Section 11: PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Red viscous liquid oil

#### Odour

Petroleum Odour

#### Melting Point

< 0°C

#### Boiling Point

> 250°C

#### Vapour Pressure

< 0.01 kPa @ 20°C

#### Vapour Density

> 2 @ 100kPa

#### pH

~ 0.0

#### Specific Gravity

0.885

#### Flashpoint (COC)

243°C

#### Flammable Limit LEL

Typically ~ 1%

#### Flammable Limit UEL

Typically ~ 7%

#### Solubility in Water

Immiscible

#### Viscosity @ 40°C

157.9 cSt

### Section 12: TOXICOLOGICAL INFORMATION

#### Toxicology

No adverse health effects expected if the product is handled in accordance with this MSDS.

#### Acute – Swallowed

Small amounts of liquid aspirated into the respiratory system ingestion or from vomiting may cause bronchopneumonia or pulmonary edema.

#### Acute – Eye

Will cause eye discomfort, but will not injure eye tissue.

#### Acute – Skin

Prolonged or frequent contact may cause skin irritation or cracking to sensitive skins.

#### Acute – Inhaled

Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, or could be anesthetic and may have other central nervous system effects.

#### Chronic

Prolonged or repeated contact with this material may result in skin irritation leading to dermatitis.

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### Section 13: DISPOSAL CONSIDERATIONS

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<b>Disposal Method</b>	Dispose of waste according to Federal, EPA, state and local regulations. Assure conformity with all applicable regulations government body.
<b>Special Disposal Precautions</b>	<b>Used oils may accumulate harmful impurities during use.</b> The concentration and hazard level of such impurities will depend on application and they may present risks to health and environment on removal and/or disposal. All used oils should be handled with caution and contact with skin avoided.

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### Section 14: TRANSPORT INFORMATION

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<b>UN Number</b>	None allocated
<b>UN Proper Shipping Name</b>	None allocated
<b>DG Class</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Not classified as a Dangerous Goods according to the IATA for transport by air. Note: Combustible materials may be classified as Class 9; miscellaneous dangerous goods if transported with flammable materials.
<b>Packaging Group</b>	None allocated
<b>Hazchem Code</b>	None allocated
<b>Special Transport Precautions</b>	None allocated

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### Section 15: REGULATORY INFORMATION

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<b>AICS</b>	All ingredients present on AICS
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### Section 16: OTHER INFORMATION

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<b>Acronyms</b>	<b>ABN</b>	Australian Business Number
	<b>ACGIH</b>	American Conference of Government Industrial Hygienists
	<b>ADG</b>	Australian Dangerous Goods
	<b>AEST</b>	Australian Eastern Standard Time
	<b>AICS</b>	Australian Inventory of Chemical Substances
	<b>CAS</b>	Chemical Abstracts Service Registry Number
	<b>COC</b>	Cleveland Open Cup
	<b>DG Class</b>	Dangerous Goods Class
	<b>EPA</b>	Environment Protection Agency
	<b>Hazchem</b>	Code of numbers and letters which gives information to emergency services
	<b>IATA</b>	International Air Transport Association
	<b>IP</b>	Institute of Petroleum
	<b>NOHSC</b>	National Occupational Health and Safety Commission
	<b>OECD</b>	Organisation of Economic Co-operation and Development
	<b>PMCC</b>	Pensky-Martens Closed Cup
	<b>SUSDP</b>	Standard for the Uniform Scheduling of Drugs and Poisons
	<b>UN Number</b>	United Nations Number

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### Section 17: CONTACT POINT

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<b>Contact Telephone</b>	Technical Manager (+61) 02 6284 4966
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