

MSDS

MATERIAL SAFETY DATA SHEET



DELTA GEAR LS SAE 90 GL-5

JAN 2020 - PRODUCT CODE **90557**

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

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

Section 6: ACCIDENTAL RELEASE MEASURES

Spills Procedure	SMALL – 20 LITRES OR LESS Soak up with inert oil absorbent. Arrange for disposal through an approved facility. LARGE – GREATER THAN 20 LITRES 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

Handling	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.
Storage Precautions	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.

Section 8: STABILITY AND REACTIVITY

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

Section 9: ECOLOGICAL INFORMATION

Eco-toxicity	Not expected to be harmful to aquatic organisms.
Persistence and Degradability	Expected to be biodegradable.
Mobility	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 ³	ppm	mg/m ³
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

Chemical safety goggles are recommended. If handled hot, a full face shield should be worn.

Glove Type

Use of impervious rubber gloves is recommended.

Clothing

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

Section 11: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Amber 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)

239°C

Flammable Limit LEL

Typically ~ 1%

Flammable Limit UEL

Typically ~ 7%

Solubility in Water

Immiscible

Viscosity @ 40°C

157.20 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

Disposal Method	Dispose of waste according to Federal, EPA, state and local regulations. Assure conformity with all applicable regulations government body.
Special Disposal Precautions	Used oils may accumulate harmful impurities during use. 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.

Section 14: TRANSPORT INFORMATION

UN Number	None allocated
UN Proper Shipping Name	None allocated
DG Class	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.
Packaging Group	None allocated
Hazchem Code	None allocated
Special Transport Precautions	None allocated

Section 15: REGULATORY INFORMATION

AICS	All ingredients present on AICS
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Section 16: OTHER INFORMATION

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

Section 17: CONTACT POINT

Contact	Technical Manager
Telephone	(+61) 02 6284 4966

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