SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING	
Product Identifier	
Product Name	HALES Gear Oil (Synthetic) (ISO 150, 220, 320, 460, 680 & 1000)
Synonyms	HALES Performance Lubricants
Other means of identification	Not Available
Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses	Enclosed Gear Box Lubricating Oil
Details of the supplier of the safety data sheet	
Registered company name	Hales Australia Pty Ltd
Address	45 Woodlands Drive, Braeside VICTORIA 3195
Telephone	+61 3 8587 1600
Website	www.hales.com.au
Email	info@hales.com.au
Emergency Telephone number	
Association / Organisation	Not Available
Emergency Telephone numbers	+61 3 9761 7666 B.H. 24 hours Emergency Contact – Australia Phone: 13 11 26
Other emergency numbers	Not Available

SECTION 2 HAZARDOUS IDENTIFICATION	
Classification of the substance or mixture **NON-HAZARDOUS CHEMICAL, NON-DANGEROUS GOODS.** **According to the WHS Regulations and the ADG Code.**	
Poisons Schedule	Not Applicable
Classification	Not Applicable
GHS label elements	This product has no label elements
SIGNAL WORD	**NOT APPLICABLE**
Hazard Statement(s)	Non-Hazardous
Precautionary statements(s) Prevention	Not Applicable
Precautionary statements(s) Response	**P301 + P310** IF SWALLOWED: Immediately call a POISON CENTRE or Doctor / Physician **P331** Do NOT induce vomiting
Precautionary statements(s) Storage	Not Applicable
Precautionary statements(s) Disposal	**P501** Dispose of contents/container in accordance with local / regional / national / international regulations

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS		
Substances See section below for composition of Mixtures		
Mixtures		
CAS No.	**% (Weight)**	**Name**
Not Available	>60	Polyalphaolefin (Non-Hazardous)
Not Available	0-10	Additives (Non-Hazardous)

SECTION 4 FIRST AID MEASURES	
Description of first aid measures	
Eye Contact	If this product comes in contact with eyes: • Flush thoroughly with water. If irritation occurs, get medical assistance. • Wash out immediately with water. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: • Flush skin and hair with running water (and soap if available).

	• Seek medical attention in event of irritation.
Inhalation	• Remove from further exposure. • For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. • If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. • If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
Ingestion	• **If swallowed do NOT induce vomiting.** • If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. • Observe the patient carefully. • Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. • Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. • Seek medical advice.
Indication of any immediate medical attention and special treatment needed Treat symptomatically.	

SECTION 5 FIREFIGHTING MEASURES	
Extinguishing media • Foam • Dry Chemical Powder • Carbon Dioxide	
Special Hazards arising from the substance or mixture	
Fire Incompatibility	• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice to firefighters	
Fire fighting	• Evacuate area. • Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. • Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). • Use water spray to cool fire exposed surfaces and to protect personnel.
Fire/Exposure Hazard	• Combustible - AS1940 Combustible class: C2 • Slight fire hazard when exposed to heat or flame. • Heating may cause expansion or decomposition leading to violent rupture of containers. • On combustion, may emit toxic fumes of carbon monoxide (CO).
HAZCHEM	Not Applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures See section 8 **Environmental precautions** See section 12	
Methods and material for containment and cleaning up	
Minor Spills	Slippery when spilt. • Clean up all spills immediately. • Avoid contact with skin and eyes. • Wear impervious gloves and safety glasses. • Place spilled material in a clean, dry, sealable, labelled container.
Major Spills	Slippery when spilt. • Clear area of personnel and move upwind. • Alert Fire Brigade and tell them location and nature of hazard. • Control personal contact with the substance, by using protective equipment.

	• Prevent spillage from entering drains, sewers or water courses.
Personal Protective Equipment advice is contained in Section 8 of the SDS.	

SECTION 7 HANDLING AND STORAGE	
Precautions for safe handling	
Safe Handling	• Limit all unnecessary personal contact. • Wear protective clothing when risk of exposure occurs. • Use in a well-ventilated area. • **When handling DO NOT eat, drink or smoke.**
Other information	• Store in original containers. • Keep containers securely sealed. • No smoking, naked lights or ignition sources. • Store in a cool, dry, well-ventilated area.
Conditions for safe storage, including any incompatibilities	
Suitable container	• Polyethylene or polypropylene container. • Packing as recommended by manufacturer. • Check all containers are clearly labelled and free from leaks.
Storage incompatibility	• Avoid storage with oxidisers

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION	
Control Parameters **OCCUPATIONAL EXPOSURE LIMITS (OEL)**	
INGREDIANT DATA	
Not Available (PAO's) – No occupational exposure limits known	
Exposure Controls	
Appropriate engineering controls	General exhaust is adequate under normal operating conditions. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: • Process controls which involve changing the way a job activity or process is done to reduce the risk. • Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Respiratory protection	• If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate.
	• Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable.
	• Types of respirators to be considered for this material include:
	  • Particulate
	  • No special requirements under ordinary conditions of use and with adequate ventilation.
	• For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Personal protection	Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

	
Eye and face protection	• Safety glasses with side shields; or as required • Chemical goggles. • Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.
Skin protection	See Hand protection below.
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves.
Body protection	See Other protection below.
Other protection	No special equipment needed when handling small quantities. **OTHERWISE:** • Overalls • Barrier cream • Eyewash unit
Thermal hazards	Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERITIES			
Information on basic physical and chemical properties. Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.			
Appearance	Clear Water White liquid, does not mix with water.		
Physical state	Liquid (oil)	**Relative density (Water = 1)**	0.87
Odour	Odourless	**Partition coefficient n-octanol / water**	Not Available
Odour threshold	Not Applicalble	**Auto-ignition temperature (°C)**	Not Available
pH (as supplied)	Not Applicable	**Decomposition temperature**	Not Available
Freezing point (°C)	-35°C	**Viscosity (cSt)**	Not Available
Initial boiling point and boiling range (°C)	Not Available	**Molecular weight (g/mol)**	Not Applicable
Flash Point (°C)	>200°C	**Taste**	Not Available
Evaporation rate	Not Available	**Explosive properties**	Not Available
Auto Flammability	>200°C	**Oxidising properties**	Not Available
Upper exposure limit (%)	Not Available	**Surface Tension (dyn/cm or mN/m)**	Not Available
Lower exposure limit (%)	Not Available	**Volatile Component (% Vol)**	Not Available
Vapour pressure (kPa)	Negligible	**Gas group**	Not Available
Solubility in water (g/L)	Insoluble	**pH as a solution (1%)**	Not Available
Vapour density (Air = 1)	Not Available	**VOC g/L**	Not Available

SECTION 10 STABILITY AND REACTIVITY	
Reactivity	See Section 7
Chemical Stability	• Unstable in the presence of incompatible materials. • Product is considered stable.
Possibility of hazardous reactions	See section 7
Conditions to avoid	Excessive heat. High energy sources of ignition. Additionally see section 7
Incompatible materials	Strong oxidisers. Additionally see section 7
Hazardous decomposition	See section 5

products	

SECTION 11 TOXICOLOGICAL INFORMATION			
Information on toxicological effects			
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product.		
Ingestion	Ingestion is unlikely to have any toxic effects, but the product may act as an intestinal lubricant and result in diarrhea and frequent loose stools. If vomiting occurs aspiration may cause delayed pulmonary edema and chemical pneumonia.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.		
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.		
STELLA Gear Oil (Synthetic) (ISO 150, 220, 320, 460, 680 & 1000)	TOXICITY	IRRITATION	
	Not Available	Not Available	
Acute Toxicity	Data Not Available to make classification	**Carcinogenicity**	Data Not Available to make classification
Skin Irritation / Corrosion	Data Not Available to make classification	**Reproductivity**	Data Not Available to make classification
Serious Eye Damage / Irritation	Data Not Available to make classification	**STOT – Single exposure**	Data Not Available to make classification
Respiratory or Skin sensitivity	Data Not Available to make classification	**STOT – Repeated Exposure**	Data Not Available to make classification
Mutagenicity	Data Not Available to make classification	**Aspiration Hazard**	Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION					
Toxicity					
Ingredient	**Endpoint**	**Test Duration (hr)**	**Species**	**Value**	**Source**
Not Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
DO NOT discharge into sewer or waterways					
Persistence and degradability					
Ingredient		**Persistence: Water/Soil**		**Persistence: Air**	
		No data available for all ingredients		No data available for all ingredients	
Bioaccumulative potential					
Ingredient	**Bioaccumulation**				
	No data available for all ingredients				
Mobility in soil					
Ingredient	**Mobility**				
Base oil component	Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.				

SECTION 13 DISPOSAL CONSIDERATIONS
Waste Treatment methods Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Product / Packaging disposal	• Recycle wherever possible or consult manufacturer for recycling options. • Consult State Land Waste Management Authority for disposal. • Bury residue in an authorised landfill. • Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code
Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environment regulations / legislation specific for the substance or mixture
This material is not considered hazardous according to Australia Model Work Health and Safety Regulations.

Product is not regulated according to Australian Dangerous Goods Code.

AS1940 COMBUSTIBLE CLASS: C2

National inventory	Status
Australia - AICS	Listed
Canada - DSL	Not Determined
China - IECSC	Not Determined
Europe – EINEC / ELINCS / NLP	Not Determined
New Zealand - NZIoC	Not Determined
USA - TSCA	Not Determined

SECTION 16 OTHER INFORMATION

Phrases used in section 2 and section 3
P301 + P310:IF SWALLOWED: Immediately call a POISON CENTRE or Doctor / Physician
P331: Do NOT induce vomiting
P501: Dispose of contents/container in accordance with local / regional / national / international regulations

The information and recommendations contained herein are, to the best of Food Grade Oils knowledge and belief, accurate and reliable as of the date issued.

The information and recommendations are offered for the user's consideration and examination.
It is the user's responsibility to satisfy itself that the product is suitable for the intended use.

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace, however it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The user is responsible for the observance of all required statutory provisions. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. Although some hazards are described herein, we cannot predict that these are the only hazards because we have no knowledge or control over the user´s working conditions.

You can contact Food Grade Oils to ensure that this document is the most current available.

If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users.