



Safety Data Sheet

Issuing Date 14-Mar-2014

Revision Date 14-Mar-2014

Version 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s) 18-9650-0, 18-9650-0R, 18-9650-2, 18-9650-2R, 18-9650-5, 18-9650-6, 18-9650-7
Product name Sierra High Performance Synthetic Blend GL-5 80W-90 Gear Oil

Pure substance/mixture Preparation
Contains Residual Oils (petroleum), solvent-dewaxed, Petroleum distillates, hydrotreated heavy paraffinic

1.2. Relevant identified uses of the substance or mixture and uses advised against

Sold to the general public? Yes
Recommended Use Gear Oil, Lubricant
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Importer	Manufacturer	Supplier
Telmo Control AS P.O. Box 46, Industriveien 1 N-2021 Skedsmokorset, Norway	Sierra International 1 Sierra Place Litchfield, IL 62056 TEL: 217-324-9487	Hicks Oils 845 N. Hickory Street Du Quoin, IL 62832 TEL: 618-542-5431

For further information, please contact

E-mail address postmaster@telmo.no

1.4. Emergency telephone number

Emergency Telephone No information available

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Norway	Giftinformasjonen -22591300

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 1B - (H350)
Specific target organ toxicity (single exposure)	Category 3
Chronic aquatic toxicity	Category 2 - (H411)

Classification according to Directive 67/548/EEC or 1999/45/



Signal word
DANGER

Hazard statements

H319 - Causes serious eye irritation
H350 - May cause cancer
H411 - Toxic to aquatic life with long lasting effects
May cause respiratory irritation. May cause drowsiness or dizziness

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use
P281 - Use personal protective equipment as required
P308 + P313 - IF exposed or concerned: Get medical advice/attention

2.3. Other hazards

Other hazards MAY BE HARMFUL IF SWALLOWED May be harmful in contact with skin Toxic to aquatic life
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name	EC No	CAS-No	Weight %	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Residual Oils (petroleum), solvent-dewaxed	265-166-0	64742-62-7	58.12	Carc.Cat.2; R45	Carc. 1B (H350)	01-2119480472
Lubricating oils, petroleum, hydrotreated spent	265-161-3	64742-58-1	30.4	-	No data available	No data available
Petroleum distillates, hydrotreated heavy paraffinic	265-157-1	64742-54-7	0.0-50.0	Carc.Cat.2; R45	Carc. 1B (H350)	No data available
Alkyl amine (PROVISIONAL)	-	P-86-1197	0.25-0.50	-	No data available	No data available

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Chemical name	CAS-No	SVHC candidates
Residual Oils (petroleum), solvent-dewaxed	64742-62-7	
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	
Alkyl amine (PROVISIONAL)	P-86-1197	

4.1. Description of first aid measures

General advice	No hazards which require special first aid measures.
Inhalation	Move exposed persons to fresh air. Consult medical personal if breathing issues occur.
Skin contact	Wash off immediately with soap and plenty of water.
Eye contact	Flush eyes for 30 minutes with water. Get medical attention if irritation persists.
Ingestion	Do NOT induce vomiting. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemical. Foam. Water can be used to keep surrounding materials cool.

Small Fires	Always use personal safety equipment. Follow appropriate personal safety procedures, and extinguishing media.
Large Fires	Contact emergency personnel.

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection

Avoid contact with the skin and the eyes. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. Wash skin with soap and water if contact occurs. Launder soiled clothing. If spilled, take caution, as material can cause surfaces to become very slippery.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Collect spill

6.3. Methods and material for containment and cleaning up

Methods for containment Cover with earth, sand, or other non-combustible material followed with plastic sheets to minimize spreading or contact with rain.

Methods for cleaning up Excess liquid material can be collected using a scoop or shovel and stored for recycling or disposal. Prevent material from entering drains or waterways.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothing. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. If contact is made, wash skin with soap and water. Launder soiled clothing. Maximum handling temperature is 70 degrees C (158 F). It is recommended to pump or transfer material at ambient temperature.

General Hygiene Considerations

Remove and wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep away from heat and sources of ignition. Keep containers closed when not in use. Follow first aid measures if contact occurs, and spill procedures if spill occurs. For packaged material: Store in a cool dry area. For bulk material: store in cool dry area. Always follow local, state, and federal guidelines for storage of material for amount stored.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face Protection

If splashes are likely to occur, wear:. Goggles. Eye/face Protection.

Skin and body protection

Physical state	viscous liquid	Odor	Mild petroleum odor
Appearance	Green colored liquid		Mild sulfur odor
Color	green	Odor threshold	No information available
Property	Values	Remarks • Method	
pH		No information available	
Melting point/freezing point		No information available	
Boiling Point/Range		No information available	
Flash point	> 93.3 °C / > 200 °F	No information available	
Evaporation rate		No information available	
Flammability (solid, gas)		No information available	
Flammability Limit in Air			
Upper flammability limit:		No information available	
Lower flammability limit:		No information available	
Vapor pressure		No information available	
Vapor density		No information available	
Specific gravity	0.88	No information available	
Water solubility		No information available	
Solubility in other solvents		No information available	
Partition coefficient		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Kinematic viscosity	14.9 @ 100C mm2/s	No information available	
Dynamic viscosity		No information available	
Explosive properties	No information available		
Oxidizing properties	No information available		
9.2. Other information			
Softening point	No information available		
Molecular weight	No information available		
VOC Content	No information available		
Density	No information available		
Bulk density	No information available		

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Hazardous polymerization

Hazardous polymerization does not occur.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Eye contact	Avoid contact with eyes. May cause irritation.
Skin contact	May cause eye/skin irritation. Prolonged skin contact may defat the skin and produce dermatitis.
Ingestion	Do NOT taste or swallow.

Unknown Acute Toxicity 0.38% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	3,089.00
ATEmix (dermal)	2,416.00
ATEmix (inhalation-dust/mist)	19.64

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Residual Oils (petroleum), solvent-dewaxed	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
Lubricating oils, petroleum, hydrotreated spent	> 2000 mg/kg (Rat)	> 4480 mg/kg (Rabbit)	

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Chemical name	European Union
Residual Oils (petroleum), solvent-dewaxed	Carc. 1B
Petroleum distillates, hydrotreated heavy paraffinic	Carc. 1B

12.1. Toxicity

0.38% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Residual Oils (petroleum), solvent-dewaxed	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Lubricating oils, petroleum, hydrotreated spent	-	79.6: 96 h Brachydanio rerio mg/L LC50 semi-static 3.2: 96 h Pimephales promelas mg/L LC50 semi-static	-
Petroleum distillates, hydrotreated heavy paraffinic	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

14.1 UN-No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not Applicable
14.6 Special Provisions	

RID

14.1 UN-No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not Applicable
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

ADR

14.1 UN-No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

ICAO

14.1 UN-No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

IATA

14.1 UN-No	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

TSCA	Does not comply
DSL/NDL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Commercial

PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of R-phrases referred to under sections 2 and 3

No information available

Full text of H-Statements referred to under section 3

H350 - May cause cancer if swallowed

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value		

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Reason Note Not Applicable.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet