

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

1.1. Product identifier

Product Code(s) 18-9410-2, 18-9410-2R, 18-9410-3R, 18-9410-4, 18-9410-7
Product name Sierra Full Synthetic API CF/SL SAE 30 Motor Oil

Pure substance/mixture Mixture

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

Sold to the general public? Yes
Recommended Use Engine oil, Lubricant

Uses advised against All Other Uses

1.3. Details of the supplier of the safety data sheet

Manufacturer
 Hicks Oils
 845 N. Hickory Street
 Du Quoin, IL 62832
 TEL: 1-618-542-5431

Supplier
 Sierra International
 1 Sierra Place
 Litchfield, IL 62056
 Tel: 1-217-324-9487

For further information, please contact

E-mail address frode.hammer@seastarsolutions.com

1.4. Emergency telephone number

Emergency Telephone No information available

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Austria	+43 1 406 43 43
Belgium	070 245 245
Denmark	Giftnlinjen 82 12 12 12
Finland	09 471977
France	+ 33 (0) 1 45 42 59 59
Germany	06131/19240 Mainz 030/19240 Berlin 06841/19240 Homburg 0228/19240 Bonn
Ireland	01 8092566 or 01 8379964
Italy	118
Netherlands	Nationaal Vergiftigingen Informatie Centrum 030-274 8888
Norway	Giftnformasjonen -22591300
Portugal	CIAV 808 250 143
Spain	+ 34 91 562 04 20
Sweden	112 08-331231
United Kingdom	08454 24 24 24 111

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)
Chronic aquatic toxicity	Category 2 - (H411)

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

Full text of R-phrases: see section 16

2.2. Label elements**Product identifier**

Contains Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr)esters

**Signal word**

WARNING

Hazard statements

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

Contains Benzenesulfonic Acid, mono-C16-24-alkyl derivs., calcium salts

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

Other hazards

MAY BE HARMFUL IF SWALLOWED Causes mild skin irritation Toxic to aquatic life

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances****3.2 Mixtures****Chemical nature of the preparation**

Petroleum Lubricating Fluid.

Chemical name	EC No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Petroleum distillates, hydrotreated heavy paraffinic	265-157-1	64742-54-7	86.91	Carc. 1B (H350)	No data available
Mineral Oils	-	MIXTURE	0-10.5	Asp. Tox. 1 (H304)	See Note Below
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	283-392-8	84605-29-8	0.65-1.29	Aquatic Chronic 2; H411 Eye Dam. 1; H318	01-2119493626-26

				Skin Irrit. 2; H315	
Benzenesulfonic Acid, mono-C16-24-alkyl derivs., calcium salts	274-263-7	70024-69-0	0.13-0.64	Skin Sens. 1B (H317)	01-2119492616-28
Phenol, dodecyl-, branched	310-154-3	121158-58-5	0.01-0.12	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Eye Irrit. 2 (H319) Repr. 2 (H361) Skin Irrit. 2 (H315)	01-2119513207-49
O,O,O-triphenyl phosphorothioate	209-909-9	597-82-0	0.01-0.12	Aquatic Chronic 4 (H413) Repr. 2 (H361)	Not Available

Full text of R-phrases: see section 16

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

Additional information

The mineral oil contained may be described by one or more of the following: EC No. 265-157-1, Registration No. 01-2119484627-25, Distillates (petroleum), hydrotreated heavy paraffinic; EC No. 265-169-7, Registration No. 01-2119471299-27, Distillates (petroleum), solvent-dewaxed heavy paraffinic; EC No. 265-158-7, Registration No. 01-2119487077-29, Distillates (petroleum), hydrotreated light paraffinic; EC No. 265-159-2, Registration No. 01-2119480132-48, Distillates (petroleum), solvent-dewaxed light paraffinic.

Chemical name	CAS-No	SVHC candidates
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	
Mineral Oils	MIXTURE	
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8	
Benzenesulfonic Acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	
Phenol, dodecyl-, branched	121158-58-5	
O,O,O-triphenyl phosphorothioate	597-82-0	

Section 4: FIRST AID MEASURES

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 personnel if breathing issues occur.
Skin contact	Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention.
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

Combustible material

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.

Small spill: Remove sources of heat or ignition, provide adequate ventilation, contain leak using absorbent, inert, non-combustible material. Large Spill: Contain spill, transfer to secure containers. In the event of an uncontrolled material release, the user should determine if release is reportable under applicable laws and regulations.

For emergency responders

Clean up area with absorbent material and place in closed containers for disposal.

6.2. Environmental precautions

Prevent product from entering drains. Keep out of waterways.

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)

Specific Uses

Engine oil, Lubricant.

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

Suitable protective clothing.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	-	Odor	Mild petroleum odor
Appearance	Amber colored liquid	Odor threshold	No information available
Color	amber		
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	Based on similar products.	
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	0.86	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	65-75 @40C cSt	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.

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid

Excessive heat. High energy sources of ignition.

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. Severely irritating to eyes.

Skin contact

Wash thoroughly after handling. Repeated exposure may cause skin dryness or cracking.

Ingestion

Do NOT taste or swallow.

Unknown Acute Toxicity 0% 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) 4,984.00
ATEmix (dermal) 5,045.00

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	= 2000 mg/kg (Rat)	> 3200 mg/kg (Rabbit)	
Phenol, dodecyl-, branched	= 2100 mg/kg (Rat)	= 5 mL/kg (Rabbit)	

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Sensitization May cause sensitization by skin contact.

Germ cell mutagenicity No information available.

Carcinogenicity Mineral oils are known to cause cancer because of carcinogenic components (e.g. benzene). The mineral oil in this product is highly refined and should not be considered a carcinogen. Used lubricating oil may contain hazardous components which have the potential to cause skin cancer. Continuous long-term contact with used lubricating oils has caused skin cancer in animal tests. .

Chemical name	European Union
Petroleum distillates, hydrotreated heavy paraffinic	Carc. 1B

Reproductive toxicity Contains ingredients that are suspected reproductive hazards.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxic to aquatic life with long lasting effects

10.92% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Petroleum distillates, hydrotreated heavy paraffinic	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	-	10 - 100: 96 h Pimephales promelas mg/L LC50 static 38: 96 h Pimephales promelas mg/L LC50 100: 96 h Pimephales promelas mg/L LC50 semi-static	0.1 - 1: 48 h Daphnia magna mg/L EC50
Phenol, dodecyl-, branched	-	0.14: 96 h Oncorhynchus clarki mg/L LC50	-

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	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

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/NDSL	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:

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA.

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

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

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects
H413 - May cause long lasting harmful effects to aquatic life

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Issuing Date 12-Feb-2014

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Reason Note SDS sections updated, 2.

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