

# Safety Data Sheet



## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

### Havoline Full Synthetic Mutli-Vehicle ATF

**Product Use:** Automotive ATF (Automatic Transmission Fluid)

**Product Number(s):** 510126

**Company Identification**

Chevron Singapore Pte Ltd

3 Fraser Street #12-28

DUO Tower

Singapore 189352

**Transportation Emergency Response**

Singapore Civil Defense Force: 995

**Health Emergency**

Chevron Emergency & Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623

**Product Information**

Product Information: +65-6318-1000

SDS Requests: +65-6318-1000

## SECTION 2 HAZARDS IDENTIFICATION

**CLASSIFICATION:** Chronic aquatic toxicant: Category 2.



**Environmental Hazards:** Toxic to aquatic life with long lasting effects (H411).

**PRECAUTIONARY STATEMENTS:**

**Prevention:** Avoid release to the environment (P273).

**Response:** Collect spillage (P391).

**Disposal:** Dispose of contents/container in accordance with applicable local/regional/national/international regulations (P501).

**HAZARDS OTHERWISE NOT CLASSIFIED:** Not applicable.

## SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

Revision Number: 1  
Revision Date: July 22, 2019

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Havoline Full Synthetic Mutli-Vehicle  
ATF  
SDS : 41970

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 - C50)	Mixture	70 - 99 %weight
Thiophene, tetrahydro-, 1,1-dioxide,3-(C9-11-isoalkyloxy) derivs, C10-rich	398141-87-2	0.3 - < 2.5 %weight
Reaction product of alkylthioalcohol and substituted phosphorus compound	Mixture	0.1 - < 1 %weight

#### SECTION 4 FIRST AID MEASURES

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

**Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

**Note to Physicians:** In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

#### SECTION 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

**Unusual Fire Hazards:** Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

#### PROTECTION OF FIRE FIGHTERS:

**Fire Fighting Instructions:** This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Protective Measures:** Eliminate all sources of ignition in vicinity of spilled material.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Reporting:** Report spills to local authorities as appropriate or required.

#### SECTION 7 HANDLING AND STORAGE

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed. Keep out of the reach of children.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**ENGINEERING CONTROLS:**

Use in a well-ventilated area.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**Skin Protection:** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

**Respiratory Protection:** No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

**Occupational Exposure Limits:**

Component	Country/ Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH	--	5 mg/m3	10 mg/m3	--	--
Highly refined mineral oil (C15 - C50)	Singapore	--	5 mg/m3	10 mg/m3	--	--

Consult local authorities for appropriate values.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Attention:** the data below are typical values and do not constitute a specification.

**Color:** Red  
**Physical State:** Liquid  
**Odor:** Petroleum odor  
**Odor Threshold:** No data available  
**pH:** Not Applicable  
**Vapor Pressure:** <0.01 mmHg (Estimated) @ 37.8 °C (100 °F)  
**Vapor Density (Air = 1):** >1 (Estimated)  
**Boiling Point:** 315°C (599°F) (Estimated)  
**Solubility:** Insoluble  
**Freezing Point:** Not Applicable  
**Melting Point:** No data available  
**Specific Gravity:** 1 g/ml @ 15.6°C (60.1°F) (Estimated)  
**Density:** 0.8490 @ 15°C (59°F) (Typical)  
**Viscosity:** 30 mm<sup>2</sup>/s @ 40°C (104°F) (Typical)  
**Evaporation Rate:** No data available  
**Octanol/Water Partition Coefficient:** No data available

#### FLAMMABLE PROPERTIES:

**Flashpoint:** (Cleveland Open Cup) 180 °C (356 °F) (Minimum)  
**Autoignition:** No data available  
**Flammability (Explosive) Limits (% by volume in air):** Lower: Not Applicable Upper: Not Applicable

### SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.  
**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.  
**Incompatibility With Other Materials:** Not applicable  
**Hazardous Decomposition Products:** None known (None expected)  
**Hazardous Polymerization:** Hazardous polymerization will not occur.

### SECTION 11 TOXICOLOGICAL INFORMATION

#### IMMEDIATE HEALTH EFFECTS

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Eye Irritation:** The eye irritation hazard is based on evaluation of data for product components.

**Skin:** High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

**Acute Dermal Toxicity:** The acute dermal toxicity hazard is based on evaluation of data for product components.

**Skin Irritation:** The skin irritation hazard is based on evaluation of data for product components.

**Skin Sensitization:** The skin sensitization hazard is based on evaluation of data for product components.

**Ingestion:** Not expected to be harmful if swallowed.

**Acute Oral Toxicity:** The acute oral toxicity hazard is based on evaluation of data for product components.

**Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause

respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

**Acute Inhalation Toxicity:** The acute inhalation toxicity hazard is based on evaluation of data for product components.

**Acute Toxicity Estimate:** Not Determined

#### **ADDITIONAL TOXICOLOGY INFORMATION:**

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

### **SECTION 12 ECOLOGICAL INFORMATION**

#### **ECOTOXICITY**

This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### **MOBILITY**

No data available.

#### **PERSISTENCE AND DEGRADABILITY**

This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### **POTENTIAL TO BIOACCUMULATE**

Bioconcentration Factor: No data available.

Octanol/Water Partition Coefficient: No data available

### **SECTION 13 DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

### **SECTION 14 TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

**UN Shipping Description:** UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (THIOPHENE, TETRAHYDRO-, 1,1-DIOXIDE, 3-(C9-11 ISOALKYLOXY) DERIVS, C10-RICH; REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSHOROUS COMPOUND), 9, III, ENVIRONMENTALLY HAZARDOUS/MARINE POLLUTANT (THIOPHENE, TETRAHYDRO-, 1,1-DIOXIDE, 3-(C9-11 ISOALKYLOXY) DERIVS, C10-RICH; REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSHOROUS COMPOUND) ADR M6

**IMO/IMDG Shipping Description:** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (THIOPHENE, TETRAHYDRO-, 1,1-DIOXIDE, 3-(C9-11 ISOALKYLOXY) DERIVS, C10-RICH; REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSHOROUS COMPOUND), 9, III, MARINE POLLUTANT (THIOPHENE, TETRAHYDRO-, 1,1-DIOXIDE, 3-(C9-11 ISOALKYLOXY) DERIVS, C10-RICH; REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSHOROUS COMPOUND); PACKAGES CONTAINING LESS THAN 5 LITERS IN A SINGLE PACKAGING ARE EXEMPT FROM REGULATION.

**ICAO/IATA Shipping Description:** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (THIOPHENE, TETRAHYDRO-, 1,1-DIOXIDE, 3-(C9-11 ISOALKYLOXY) DERIVS, C10-RICH; REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSHOROUS COMPOUND), 9, III, MARINE POLLUTANT (THIOPHENE, TETRAHYDRO-, 1,1-DIOXIDE, 3-(C9-11 ISOALKYLOXY) DERIVS, C10-RICH; REACTION PRODUCT OF ALKYLTHIOALCOHOL AND SUBSTITUTED PHOSHOROUS COMPOUND); PACKAGES CONTAINING LESS THAN 5 LITERS IN A SINGLE PACKAGING ARE EXEMPT FROM REGULATION

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:** Not applicable

## SECTION 15 REGULATORY INFORMATION

### REGULATORY LISTS SEARCHED:

01-1=IARC Group 1  
01-2A=IARC Group 2A  
01-2B=IARC Group 2B

No components of this material were found on the regulatory lists above.

### CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), ENCS (Japan), IECSC (China), KECI (Korea), NZIoC (New Zealand), TCSI (Taiwan), TSCA (United States).

One or more components is listed on ELINCS (European Union). All other components are listed or exempted from listing on EINECS.

## SECTION 16 OTHER INFORMATION

**REVISION STATEMENT:** SECTION 01 - Company MSDS Address information was modified.

SECTION 01 - Health Emergency information was modified.

SECTION 01 - Product Use information was modified.

SECTION 01 - Transportation Emergency Response information was added.

SECTION 02 - Environmental Classification information was added.

SECTION 02 - Hazard Statements information was added.

SECTION 02 - Physical/Chemical Classification information was deleted.

SECTION 02 - Pictogram information was added.  
 SECTION 02 - Precautionary Statements information was added.  
 SECTION 03 - Composition information was modified.  
 SECTION 07 - Precautionary Measures information was modified.  
 SECTION 08 - Occupational Exposure Limit Table information was modified.  
 SECTION 09 - Physical/Chemical Properties information was modified.  
 SECTION 11 - Immediate Health Effects - Skin information was modified.  
 SECTION 11 - Toxicological Information information was modified.  
 SECTION 12 - Ecological Information information was modified.  
 SECTION 14 - DOT Classification information was deleted.  
 SECTION 14 - ICAO Classification information was modified.  
 SECTION 14 - IMO Classification information was modified.  
 SECTION 14 - UN Classification information was added.  
 SECTION 15 - Chemical Inventories information was modified.

**Revision Date:** July 22, 2019

**ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:**

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	MSDS - Material Safety Data Sheet
CVX - Chevron	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration

Prepared according to the Singapore Standard SS 586: 2014

**The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.**