

# [Material Safety Data Sheet]

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name ATF HD S Automatic Transmission Fluid

Product Code 2019070101

Product Usage: Suitable for using in Automatic Transmission, especially meets heavy duty vehicle

requires.

Company Identification SINOPEC LUBRICANT CO., LTD.

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Post Code 100085

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## **SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

This material is a mixture.

COMPONENTS	CAS NUMBER	AMOUNT,wt%
Mineral base oil	mixture	80-99
Heterocyclic ether		0.912-1.825
Alkyl acetamide		0.183-0.912
Alkaryl amine		0.183-0.912
Substituted hydrocarbyl sulfide		0.183-0.912
Long chain hydroxyalkylamine		0.183-0.912
Dibutylhydrogen phosphite	1809-19-4	0.183-0.912
Calcium sulfonate		0.091-0.183
Borate ester		0.091-0.183
Ethoxylated amine		0.018-0.091
Diphenylamine	122-39-4	0.018-0.091
Oleyl hydroxyethyl imidazoline		0.018-0.091
Alkylamines	104-43-8	0.018-0.091



### **SECTION 3 HAZARDS IDENTIFICATION**

#### **IMMEDIATE HEALTH EFFECTS**

Eye Not expected to cause prolonged or significant eye irritation.

Skin 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.

Ingestion Not expected to be harmful if swallowed.

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.

## **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.

## **SECTION 5 FIRE FIGHTING MEASURES**

Fire Classification: OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or

combustible.

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

## **FLAMMABLE PROPERTIES:**

Flashpoint: (Cleveland Open Cup) 200 °C (428 °F) Minimum

Auto ignition: No data available Flammability (Explosive) Limits (% by volume in air): Lower Not Applicable Upper Not Applicable

Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

# **PROTECTION OF FIRE FIGHTERS:**

Fire Fighting Instructions This material will burn although it is not easily ignited. 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,

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MSDS: 2019070101



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 and/or the U.S. Coast Guard's National Response

Center at (800) 424-8802 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.

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. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against

Ignitions Arising Out of Static, Lightning, and Stray Currents'.

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 3), 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:

Neoprene, Nitrile Rubber.

Respiratory Protection: No respiratory protection is normally required. No respiratory protection is ordinarily

required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material...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	Agency	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 -C50)	ACGIH	5 mg/m <sup>3</sup>	10 mg/ m <sup>3</sup>		
Highly refined mineral oil (C15 -C50	OSHA Z-1	5 mg/ m <sup>3</sup>			

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.

Appearance: transparent

Physical State: Liquid

Odor: Petroleum odor pH: Not Applicable

Vapor Pressure: <0.01 mmHg Maximum @ 37.8 °C (100 °F)

Vapor Density (Air = 1): >1 Minimum

Boiling Point: No data available

**Solubility:** Soluble in hydrocarbon solvents; insoluble in water.

Freezing Point: No data available

**Density:** 0.8506 kg/l @ 15.6°C (Typical)

**Viscosity:** 7.21 mm<sup>2</sup>/s @ 100°C (212°F) (Typical)

Evaporation Rate: No data available

### **SECTION 10 STABILITY AND REACTIVITY**

Chemical Stability: This material is considered stable under normal ambient and anticipated storage



and handling conditions of temperature and pressure.

Incompatibility With Other Materials:

May react with strong acids or strong oxidizing agents, such as chlorates, nitrates,

peroxides, etc.

Hazardous Decomposition Products:

None known (None expected)

Hazardous Polymerization: Hazardous polymerization will not occur.

### **SECTION 11 TOXICOLOGICAL INFORMATION**

### **IMMEDIATE HEALTH EFFECTS**

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or

product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or

product components.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for similar materials or

product components.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar

materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or

product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar

materials or product components.

### 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). During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

## **SECTION 12 ECOLOGICAL INFORMATION**

Ecotoxicity This material is not expected to be harmful to aquatic organisms. The ecotoxicity hazard

is based on an evaluation of data for the components or a similar

material.

## **ENVIRONMENTAL FATE**

Ready Biodegradability: 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.

#### **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.

**DOT Shipping Description:** NOT REGULATED AS A HAZARDOUS MATERIAL UNDER 49 CFR **IMO/IMDG Shipping Description:** 

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE

IMDG CODE

ICAO/IATA Shipping Description:

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

## **SECTION 15 REGULATORY INFORMATION**

## **EPCRA 311/312 CATEGORIES:**

Immediate (Acute) Health Effects:
 Delayed (Chronic) Health Effects:
 NO
 Fire Hazard:
 Sudden Release of Pressure Hazard:
 Reactivity Hazard:
 NO

## REGULATORY LISTS SEARCHED:

01-1=IARC Group 1 03=EPCRA 313

01-2A=IARC Group 2A 04=CA Proposition 65

01-2B=IARC Group 2B 05=MA RTK 02=NTP Carcinogen 06=NJ RTK

07=PA RTK

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), EINECS (European Union), KECI (Korea), PICCS

(Philippines), TSCA (United States).

One or more components does not comply with the following chemical inventory

requirements: ENCS (Japan).

Additional notifications in Canada may be required 90 days prior to use other

than as a lubricating oil additive.

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1



et. seq., the product is to be identified as follows: PETROLEUM OIL (Motor oil)

This product is not considered a controlled product according to the criteria of the Cana

dian Controlled Products Regulations.

### **SECTION 16 OTHER INFORMATION**

NFPA Ratings: Health: 0 Flammability: 1 Reactivity: 0
HMIS Ratings Health: 1 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection

Equipment Index recommendation, \*- Chronic Effect Indicator).

These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and

Coating Association (for HMIS ratings).

Label Recommendation

WHMIS Classification

Label Category: ATF

Revision Statement None

Revision Date: July 1, 2019

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

TLV - Threshold Limit Value TWA - Time Weighted Average
PEL - Permissible Exposure Limit STEL - Short-term 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

NFPA - National Fire Protection Association (USA)

OSHA - Occupational Safety and Health Administration

DOT - Department of Transportation (USA)

NTP - National Toxicology Program (USA)

IARC - International Agency for Research on Cancer

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.

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