

【 Material Safety Data Sheet—MSDS 】

1) PRODUCT AND COMPANY IDENTIFICATION

Product name	Manual transmission fluid for commercial vehicles		
Common characters	liquid can be dissolved in oil		
Use	Manual transmission fluid for commercial vehicles be used in manual transmission of commercial vehicles with synchronizer for lubricating, cooling and airproofing etc.		
Producer	LUBRICANT COMPANY, SINOPEC CORP.	Service tel.	800-810-9886
Supplier	LUBRICANT COMPANY, SINOPEC CORP.	Hot line	400-810-9886
Website	www.sinolube.com		
Compile Date	2011-03-25		

2) COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Ingredients	Content, Wt%
additive	mixture	<20
Base oil	mixture	80-100

3) HAZARDS IDENTIFICATION

Potential health effects	The International Agency for Research on Cancer (IARC) has determined there is no sufficient evidence for the carcinogenicity in experimental animals of used the oil. Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eyes, skin or respiratory irritation.
--------------------------	---

4) FIRST AID MEASURES

Eye	Flush with water for 15 minutes. If irritation occurs, get medical attention.
Skin	Flush skin with water, and then wash with soap and water. Get medical attention.
Inhalation	Remove victim to fresh air and provide oxygen. Get medical attention.
Ingestion	Do not induce vomiting. Get medical attention.
Note to Physician	Cure according to symptom

5) FIRE FIGHTING MEASURES

Extinguishing media	Carbon dioxide, foam, dry chemical and water fog.
Extinguishing Method	spray
Combustion products	Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.
Forbidden media	water

6) ACCIDENTAL RELEASE MEASURES

Protective Measures	Wear appropriate personal protective equipment when cleaning up
---------------------	---

spills.

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

Spill Management

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

7) HANDLING AND STORAGE

Storage Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

Empty container warning Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls Provide adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

Respiratory Protection If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn.

Eye Protection Chemical Goggles, or Safety glasses with side shields

Hand Protection Use protective gloves which is chemically resistant to this material

Personal protection Use protective clothing and shoes which are chemically resistant to this material.

Note to sanitation Wash hands with water and use cosmetic to protect

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown and transparent liquid	Odor	No peculiar smell
------------	------------------------------	------	-------------------

Flash point (COC) °C (ASTM D92, ISO 2592)	>150
--	------

10) REACTIVITY AND STABILITY

Stability Stable (at room temperature)

Conditions and materials to avoid Extreme heat and high energy sources of ignition and strong oxidizers

Hazardous decomposition Product does not decompose at ambient temperatures.

Hazardous polymerization Will not occur.

11) TOXICOLOGICAL INFORMATION

Acute Toxicity ORAL TOXICITY (RATS): Practically low toxic (LD50: greater than 5000mg/kgBW). — -Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically low toxic (LC50: greater than 10000mg/m³). — -Based on testing of similar products and/or the components.

12) ECOLOGICAL INFORMATION

Ecological toxicity	Though long time infiltration, it may produce ecological toxicity
Mobility	When released into the environment, adsorption to sediment and soil will be the predominant behavior.
Persistence and degradability	This product is expected to be inherently biodegradable
Bioaccumulative potential:	Bioaccumulation is unlikely due to the very low water solubility of this product; therefore bioavailability to aquatic organisms is minimal.

13) DISPOSAL CONSIDERATIONS

Waste disposal	Product is suitable for burning in an enclosed, controlled burner for fuel value. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility.
Note to release	Use protection things ,including protection gloves ,glasses and respirator, because explosion may happen heating in the container

14) TRANSPORT INFORMATION

Transport	The transport department work abiding by all the law ,rule and regulations
-----------	--

15) REGULATORY INFORMATION

National regulation	Solid waste pollution prevention and cure law of The People ' s Republic of China
State Regulation	Water pollution standard of local government

16) OTHER INFORMATION

Other data	Get information and manual from the market department or technology department
------------	--