



Report No.: MND230131QD_US(En)
Nomination No.: COLASOCH2300649-01

Safety Data Sheet (SDS)

Product Name: 6SPD-DCT dual clutch transmission oil

Report Version: Prepared according to American OSHA HCS-2012

Application Company Name: Guangzhou Meforsi Auto Technology Co.,Ltd

Application Company Address: First Floor H Building Baiyunhu creative industry park, NO.#8 Xiaomao
Nunyue Shangye Street Baiyun District ,2721 Airport Road ,Guangzhou
City, China

Contract Information: 13976670358

24 Hour Emergency Call: 020-29816683

Inspection time: 2023/03/14

SGS-CSTC Standards Technical Services(Qingdao) Co.,Ltd

Authorised Signatory

2023-3-14



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Safety Data Sheet

6SPD-DCT dual clutch transmission oil

Version: V2.0.0.1

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*Prepared according to American OSHA HCS-2012

1 Identification

Product identifier

Product Name	6SPD-DCT dual clutch transmission oil
Product Model	1L
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Guangzhou Meforsi Auto Technology Co.,Ltd
Address of the company	First Floor H Building Baiyunhu creative industry park, NO.#8 Xiaomao Nunyue Shangye Street Baiyun District ,2721 Airport Road ,Guangzhou City, China
Post code	—
Telephone number	13976670358
Fax number	—
E-mail address	976371381@qq.com

Emergency phone number


Emergency phone number	020-29816683
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2 Hazard(s) identification

Hazard classification according to GHS

Carcinogenicity	Category 1
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GHS Label elements

Hazard pictograms	
Signal word	Danger

Hazard statements

H350	May cause cancer
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Precautionary statements

◆ Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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◆ Response

Response	Not applicable
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◆ Storage

P405	Store locked up.
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◆ Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Other hazards

	Not applicable.
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Hazard description

◆ Physical and chemical hazards

	No information available
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◆ Health hazards

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Eye	This product may cause temporary discomfort following direct contact with the eye.

◆ Environmental hazards

	Please refer to 12th chapter of SDS.
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3 Composition/information on ingredients**Substance/mixture**

	Mixture
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Component	CAS No.	EC No.	Concentration (wt, %)
Distillate,hydrotreated,heavy paraffines	64742-54-7	265-157-1	90 ~ 97
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7	1.0 ~ 3.0
Bis(nonylphenyl)amine	36878-20-3	253-249-4	0.38 ~ 0.64
2,5-bis(tert-nonyldithio)-1,3,4-thiadiazole	89347-09-1	289-493-3	0.13 ~ 0.38
POE (2) TALLOW AMINE	61791-44-4	263-177-5	0.13 ~ 0.38
3-(isodecyloxy)propylamine	30113-45-2	250-056-7	0.013 ~ 0.038
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-nonyldithio)-	97503-12-3	-	0.013 ~ 0.038

(Z)-N-9-octadecenylpropa ne-1,3-diamine	7173-62-8	230-528-9	0 ~ 0.013
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4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Dry chemical, carbon dioxide or alcohol-resistant foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter or spread fire.

Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1	Use personal protective equipment, do not breathe gas/mist/vapour/spray.
2	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

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| 3 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
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Environmental precautions

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| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided. |

Methods and materials for containment and cleaning up

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| 1 | Cut off the source of the leak as much as possible. |
| 2 | Keep leaks in a ventilated place. |
| 3 | Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. |
| 4 | Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. |
| 5 | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container. |

7 Handling and storage

Precautions for safe handling

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| 1 | Handling is performed in a well ventilated place. |
| 2 | Wear suitable protective equipment. |
| 3 | Avoid contact with skin and eyes. |
| 4 | Keep away from heat/sparks/open flames/ hot surfaces. |

Conditions for safe storage, including any incompatibilities

- | | |
|---|--|
| 1 | Keep containers tightly closed. |
| 2 | Keep containers in a dry, cool and well-ventilated place. |
| 3 | Keep away from heat/sparks/open flames/hot surfaces. |
| 4 | Store away from incompatible materials and foodstuff containers. |

8 Exposure controls/personal protection

Control parameters

Occupational Exposure limit values	No relevant regulations
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◆ Biological limit values

Biological limit values	No relevant regulations
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◆ Monitoring methods

- | | |
|---|---|
| 1 | EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. |
| 2 | GBZ/T 300 series standard Determination of toxic substances in workplace air. |

Engineering controls

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| 1 | Ensure adequate ventilation, especially in confined areas. |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| 4 | Set up emergency exit and necessary risk-elimination area. |

Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties and safety characteristics

Physical and chemical properties

Appearance	Yellow oily liquid
Odor	No information available
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	No information available
Flash point(Closed cup, °C)	218(Open-cup flash point)
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	0.83-0.85
Solubility	Oil-soluble, water-insoluble
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Viscosity	7.0-8.5 (m ² /s) @100°C; 30-50 (m ² /s)@40°C

10 Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No information available.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Distillate,hydrotreated,heavy paraffines	> 15000mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Distillate,hydrotreated,heavy paraffines	Not Listed	Not Listed
Distillates (petroleum), hydrotreated light paraffinic	Not Listed	Not Listed
Bis(nonylphenyl)amine	Not Listed	Not Listed
2,5-bis(tert-nonyldithio)-1,3,4-thiadiazole	Not Listed	Not Listed
POE (2) TALLOW AMINE	Not Listed	Not Listed
3-(isodecyloxy)propylamine	Not Listed	Not Listed
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-nonyldithio)-	Not Listed	Not Listed
(Z)-N-9-octadecenylpropylamine-1,3-diamine	Not Listed	Not Listed

Others

6SPD-DCT dual clutch transmission oil	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
(Z)-N-9-octadecenylpropylamine-1,3-diamine	LC ₅₀ : 0.148mg/L (96h)(Fish)	No information available	No information available
Bis(nonylphenyl)amine	No information available	EC ₅₀ : > 100mg/L (48h)(Crustaceans)	No information available

Chronic aquatic toxicity

Chronic aquatic toxicity	No information available
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Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Bis(nonylphenyl)amine	Low(Half-life = 56 days)	No information available

Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Bis(nonylphenyl)amine	Low	BCF=253

Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Bis(nonylphenyl)amine	Low	1887

Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Distillate,hydrotreated,heavy paraffines	Not PBT/vPvB
Distillates (petroleum), hydrotreated light paraffinic	Not PBT/vPvB
Bis(nonylphenyl)amine	Not PBT/vPvB
2,5-bis(tert-nonyldithio)-1,3,4-thiadiazole	Insufficient information, temporarily unable to evaluate
POE (2) TALLOW AMINE	Insufficient information, temporarily unable to evaluate
3-(isodecyloxy)propylamine	Insufficient information, temporarily unable to evaluate
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-nonyldithio)-(Z)-N-9-octadecenylpropylamine-1,3-diamine	Insufficient information, temporarily unable to evaluate
	Not PBT/vPvB

13 Disposal considerations**Disposal considerations**

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information**Label and Mark**

Transporting Label	Not applicable
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IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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15 Regulatory information**International chemical inventory**

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
Distillate,hydrotreated,heavy paraffines	√	√	√	√	√	√	√	√	×
Distillates (petroleum), hydrotreated light paraffinic	√	√	√	√	√	√	√	√	×
Bis(nonylphenyl)amine	√	√	√	√	√	√	√	√	√
2,5-bis(tert-nonyldithio)-1,3,4-thiadiazole	√	√	√	√	√	√	√	√	×
POE (2) TALLOW AMINE	√	√	√	√	√	√	√	√	√
3-(isodecyloxy)propylamine	√	√	√	√	√	√	√	√	√
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-nonyldithio)-	×	√	×	√	√	√	√	√	×
(Z)-N-9-octadecenylpropane-1,3-diamine	√	√	√	√	√	√	√	√	√

[EC inventory]	European Inventory of Existing Commercial Chemical Substances
[TSCA]	United States Toxic Substances Control Act Inventory
[DSL]	Canadian Domestic Substances List
[IECSC]	China Inventory of Existing Chemical Substances
[NZIoC]	New Zealand Inventory of Chemicals
[PICCS]	Philippines Inventory of Chemicals and Chemical Substances
[KECI]	Korea Existing Chemicals Inventory
[AIIC]	Australian. Inventory of Industrial Chemical (AIIC)
[ENCS]	Japan Inventory of Existing & New Chemical Substances

Note:

- “√” Indicates that the substance included in the regulations.
 “×” No data or not included in the regulations.

16 Other information**Information on revision**

Creation Date	2023/03/14
Revision Date	2023/03/14
Reason for revision	-

Reference

[1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.

- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/substancesearch/index.action>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC _x	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P _{ow}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2012. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.