

SAFETY DATA SHEET

According to Work Health and Safety Regulations 2011 and National Model Code of Practice for the

preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.1

Issue date: 18/09/2019 Revision date: 23/05/2022

SDS Record Number: CSSS-TCO-010-117591

1. Identification of the material and supplier

Material name:	DOT4 Brake Fluid
Other means of identification:	-
Recommended use:	Hydraulic brake systems of motor vehicles.
Restrictions on use:	-
Manufacturer:	
Supplier(Manufacturer):	SINOPEC LUBRICANT CO.,LTD
Address:	No. 6 Anning Zhuang West Road, Haidian District, Beijing, P.R.China
Contact person(E-mail):	csc.lube@sinopec.com
Telephone:	86-800-810-9886
Fax:	86-10-82410856
Emergency number:	86-800-810-9886
Australia Supplier(Manufacturer):	International Lubricant Distributors Pty. Ltd.
Address:	21 Logistics Boulevard, Kenwick, WA 6107, Australia
Contact person(E-mail):	-
Telephone:	-
Fax:	+61 8 9381 1788
Emergency number:	1300 558 939
New Zealand Supplier(Manufacturer):	MTS ENERGY LTD
Address:	PO BOX 302-133 North Harbour, Auckland 0751, New Zealand
Telephone:	+64 9 480 8921
Fax:	+64 9 480 8398
Emergency number:	0800 399 993 (24 Hrs)

2. Hazards identification

Australia:

Not classified as Hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) **New Zealand:**

Not classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand. Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements:

Hazard Pictograms: :	No hazard pictogram is used.
Signal word:	No signal word is used.
Hazard statement:	Not applicable.

Precautionary statement:	
Prevention:	Not applicable.
Response:	Not applicable.
Storage:	Not applicable.
Disposal:	Not applicable.
Other hazards which do not result in	Not applicable.
classification:	

Composition/information on ingredients Components CAS No. Percent Polyglycol Base oil Mixture 95 -99%

Mixture

4. First aid measures	
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.
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.
Eye:	Flush with water for at least 15 minutes. Get medical assistance.
Ingestion:	Seek immediate medical attention. Do not induce vomiting.
Symptoms caused by exposure:	Not available.
Medical Attention and Special Treatment:	Treat symptomatically.

1-5%

5. Fire-fighting measures

Additive

00	
Suitable extinguishing media:	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.
Extinguishing media which must not be	Not available.
used for safety reasons:	
Specific hazards arising from the	In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO), Nitrous
chemical:	gases (NOx).
Special protective equipment and	This material will burn although it is not easily ignited. For fires involving this material, do
precautions for fire fighters:	not enter any enclosed or confined fire space without proper protective equipment,
	including self-contained breathing apparatus.

6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures:	Avoid build up of vapor. Ensure sufficient supply of air. Avoid contact with eyes or skin. Contact with water - danger of sliding. Wear appropriate personal protective equipment	
Environmental precautions:	and clothing to prevent exposure. Increase ventilation. Evacuate all unprotected personnel. Eliminate all sources of ignition in vicinity of spilled material. If leakage occurs, dam up. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities.	
Methods and materials for containment	Stop the source of the release if you can do it without risk. Contain release to prevent	

Material name: DOT4 Brake Fluid Version #: 1.1 Issue date: 18-09-2019.



and cleaning up:

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.

7. Handling and storage		
Precautions for safe handling:	Containers, even those that have been emptied, may contain explosive vapors. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic	
	discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment.	
Conditions for safe storage, including any incompatibilities:	 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. 	
Storage regulation	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 reconditioned or disposed of properly.	

8. Exposure controls/personal protection

Control parameters – exposure

Not available

standards, biological monitoring:

Exposure Levels

Occupational exposure limits:

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)			
Components	Туре	Value	Form
Not available.	Not available.	Not available.	Not available.
Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)			
Components	Туре	Value	Form
Not available.	Not available.	Not available.	Not available.

No exposure standards have been established for this material.

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

glasses with side shields as a good safety practice.

Appropriate engineering controls:

Provide sufficient ventilation to keep airborne levels as low as possible. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.

No special eye protection is normally required. Where splashing is possible, wear safety

No special protective clothing is normally required. Where splashing is possible, select

protective clothing depending on operations conducted physical requirements and other

No respiratory protection is normally required. No respiratory protection is ordinarily

Personal protective equipment:

Eye/face protection:

Skin protection:

Respiratory protection:

substances in the workplace.

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. Suggested materials for protective gloves include: Neoprene, Nitrile Rubber.

Hand protection:

9. Physical and chemical properties

Information on basic physical and chemica	I properties
Appearance:	
Physical state:	Liquid
Form:	Liquid
Color:	Light yellow to amber
Odor:	Characteristics odor
Odour threshold:	Not available
PH:	8.8 (typical)
Melting point/Freezing point:	Not available
Boiling point and boiling range:	250°C(482°F) Minimum
Flash point:	(closed-cup) > 100 $^{\circ}$ C (212 $^{\circ}$ F) Minimum [ASTM D 92]
Evaporation rate:	Not available
Flammability (solid, gas) :	Not available
Upper/lower flammability or explosive	Not available
limits:	
Vapor pressure:	Not available
Vapor density:	Not available
Density:	1.0 - 1.1 g/cm ³ (20°C) (68°F)
Solubility (H ₂ O) :	Soluble in water.
Partition coefficient (n-octanol/water) :	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic:	1.5 mm ² /s at100°C (212°F) Minimum
Specific heat value:	Not available
Particle size:	Not available
Volatile organic compounds content:	Not available
% volatile:	Not available
Saturated vapour concentration:	Not available
Release of invisible flammable vapours	Not available
and gases:	
Additional parameters	
Shape and aspect ratio:	Not available
Crystallinity:	Not available
Dustiness:	Not available
Surface area:	Not available
Degree of aggregation or agglomeration:	Not available

Ionisation (redox potential):	Not available
Biodurability or biopersistence:	Not available

10. Stability and reactivity	
Reactivity:	Stable under recommended transport or storage conditions.
Chemical stability:	Stable under normal temperatures and pressures.
Possibility of hazardous reactions:	Contact with strong oxidants.
Conditions to avoid:	Incompatible materials.
Incompatible materials:	Strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous decomposition products:	Carbon monoxide (CO), Nitrous gases (NOx).

11. Toxicological information

Toxicological data:	
Acute toxicity:	
LD50(Oral, Rat):	Not available
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	No data available.
Serious eye damage/irritation:	No data available.
Respiratory or skin sensitization:	No data available.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
STOT- single exposure:	No data available.
STOT-repeated exposure:	No data available.
Aspiration hazard:	No data available.
Other information	This product has no known adverse effect on human health.
Information on routes of exposure	No data available.
Symptoms related to exposure	No data available.
Numerical measures of toxicity	No data available.
Immediate, delayed and chronic health	No data available.
effects from exposure	

12. Ecological information

Ecotoxicity:

Acute t	Acute toxicity		Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: **Bioaccumulative potential:** Mobility in soil: Other adverse effects:

This material is expected to be inherently biodegradable.

Potential to bioaccumulation is low.

This material is expected to remain in water migrate through soil.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this



component.

Safe handling and disposal methods:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.		
Disposal of any contaminated	Australia:		
packaging:	The disposal of the spilled or waste material must be done in accordance with applicab		
	local and national regulations.		
	New Zealand:		
	Product Disposal		
	Product wastes are controlled wastes and should be disposed of in accordance with a		
	applicable local and national regulations. This product can be disposed through a license		
	commercial waste collection service. In this specific case the product is a combustit		
	substance and therefore can be sent to an approved high temperature incineration plant		
	disposal. Personal protective clothing and equipment as specified in Section 8 of this SE		
	must be worn during handling and disposal of this product. The ventilation requirements		
	specified in the same section must be followed, and the precautions given in Section 7		
	this SDS regarding handling must also be followed. Do not dispose into the sewera		
	system. Do not discharge into drains or watercourses or dispose where ground or surfa		
	waters may be affected. In New Zealand, the disposal agency or contractor must comp		
	with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further deta		
	regarding disposal can be obtained on the EPA New Zealand website under specific gro		
	standards.		
	Container Disposal		
	The container or packaging must be cleaned and rendered incapable of holding a		
	substance. It can then be disposed of in a manner consistent with that of the substance		
	contained. In this instance the packaging can be disposed through a commercial was		
	collection service. Alternatively, the container or packaging can be recycled if the hazardo		
	residues have been thoroughly cleaned or rendered non-hazardous. In New Zealand, t		
	packaging (that may or may not hold any residual substance) that is lawfully disposed of		
	householders or other consumers through a public or commercial waste collection service		
	a means of compliance with regulations.		

14. Transport information

Australia:

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. **New Zealand:**

Not classified as Dangerous Goods for transport according to the NZS 5433:2012 Transport of Dangerous Goods on Land.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

U.N. Number

None Allocated

Proper Shipping Name					
None Allocated					
DG Class					
None Allocated					
Packing Group					
None Allocated					
15. Regulatory information					
Safety, health and environmental regulat	ions specific for the product in question				
Australia:					
Not classified as Hazardous according to cr	Not classified as Hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia.				
Not classified as a Scheduled Poison accor	ding to the Standard for the Uniform Scheduling	of Medicines and Poisons (SUSMP)			
New Zealand:					
Not classified as Hazardous according to the	e New Zealand Hazardous Substances (Minimu	m Degrees of Hazard) Regulations 2001.			
Australia HVIC: Listed substance					
Not available.					
New Zealand Location Test Certifica	te				
Subject to Regulation 55 of the	Hazardous Substances (Classes 1 to 5 Contr	ols) Regulations a location test certificate is			
required when quantity greater the	nan or equal to those indicated below are presen	t.			
Hazard Class	Quantity beyond which controls apply	Quantity beyond which controls apply			
	for closed containers	when use occurring in open containers			
Not Applicable	Not Applicable	Not Applicable			

New Zealand Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance	Quantities	
Not Applicable	Not Applicable	
Inventory status:		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Not available.
Canada	Domestic Substances List (DSL)	Not available.
Canada	Non-Domestic Substances List (NDSL)	Not available.
China	Inventory of Existing Chemical Substances in China	Not available.
	(IECSC)	
Europe	European Inventory of Existing Commercial Chemical	Not available.
	Substances (EINECS)	
Europe	European List of Notified Chemical Substances (ELINCS)	Not available.
Japan	Inventory of Existing and New Chemical Substances	Not available.
	(ENCS)	
Korea	Existing Chemicals List (ECL)	Not available.
New Zealand	New Zealand Inventory	Not available.
Philippines	Philippine Inventory of Chemicals and Chemical	Not available.
	Substances (PICCS)	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Not available.

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the



governing country(s).

16. Other information

Indication of changes:	Version 1.1
Date of preparation or review:	2022.05.23
Key abbreviations or acronyms	CAS: Chemical Abstracts Service
used:	LC50: Lethal Concentration 50
	EC50: Concentration for 50% of maximal effect
	LD50: Lethal dose 50%
	MAC: maximum allowable concentration, MAC)
	PC-TWA: permissible concentration-time weighted average
	PC-STEL: permissible concentration-short term exposure limit
reference	Australia:
	Standard for the Uniform Scheduling of Medicines and Poisons.
	Approved criteria for classifying hazardous substances [NOHSC: 1008(2004)].
	National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:
	2011(2003)].
	Australian Code for the Transport of Dangerous Goods by Road & Rail.
	Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted
	carcinogens and restricted hazardous chemicals.
	Workplace exposure standards for airborne contaminants, Safe work Australia.
	American Conference of Industrial Hygienists (ACGIH)
	New Zealand:
	Workplace Exposure Standards and Biological Exposure Indices
	Transport of Dangerous goods on land NZS 5433.
	Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO
	CoP 8-1 0906).
	Assigning a hazardous substance to a group standard.
	American Conference of IndustriaLHygienists (ACGIH)