

Safety Data Sheet Lube-Tech Dot 5 Brake Fluid Revision Date: 2/21/19

Prepared according to Global Harmonized System (GHS) standards

SECTION 1

CHEMICAL PRODUCT IDENTIFICATION

Lubrication Technologies, Inc. 900 Mendelssohn Avenue North Golden Valley, MN 55427-4309 Tel: 763-545-0707

Product Trade Name:

Lube-Tech Dot 5 Brake Fluid

CAS Number: Synonyms/Other: Recommended Use: Restrictions on Use: Created Date: Preparation/Revision Date: Emergency Phone Number: SDS CODE: Mixture N/A Brake Fluid Not Determined 6/25/2015 2/21/2019 1-800-424-9300 (CHEMTREC) 12538

SECTION 2

HAZARD IDENTIFICATION

Appearance:	Violet Viscous Fluid
Odor:	Odorless
Classification:	This material is not considered to be hazardous according to the Globally Harmonized
	System of Classification and Labelling Chemicals (GHS).
Target Organs:	Not applicable.
Pictogram(s):	
	None required.
Signal Word:	None required.
Hazard Statement:	Not required.
Other Hazards:	Not determined.
Prevention:	None required.
Response:	None required.
Storage Procedures:	None required.
Disposal:	None required.
Other:	See section 11 for complete health hazard information.

SECTION 3

COMPOSITION OF INGREDIENTS

Component	CAS Number	Percentage (by weight)
Polydimethylsiloxane	63148-62-9	95 - 100%
Tributyl Phosphate	126-73-8	< 1 - 5%
Dioctyl Sebacate	122-62-3	< 1 - 5%

The balance of components do not contribute to the overall classification of the fluid, according to the GHS Standard.



SECTION 4	FIRST AID MEASURES
Eye Contact:	If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical
Skin Contact:	Call a doctor if you feel unwell.
Inhalation:	Get medical advice or attention if you feel unwell or are concerned.
Ingestion:	If you feel unwell or concerned: Get medical advice/attention. Rinse mouth. Do NOT
	induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.
Other:	No additional information
	FIRE FIGHTING MEASURES
SECTION 5	FIRE FIGHTING MEASURES
Flash Point:	>204°C by Cleveland Open Cup Tester.
Flammable limits:	Not determined.
Extinguishing media:	Use dry chemical, alcohol foam, all purpose AFFF or carbon dioxide to extinguish fire.
• •	: DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).
Unusual fire & explosion hazards: Byproducts of combustion:	Dense smoke may be generated while burning. Toxic fumes, gases or vapors may evolve on burning. High temperatures may create heavy flammable vapors that may settle along ground level and low spots to create an invisible fire hazard. Fires involving this product may release oxides of carbon, phosphorus, nitrogen and
Byproducts of combustion.	sulfur; reactive hydrocarbons and irritating vapors.
Autoignition temperature:	Not determined.
Explosion data:	Not determined. Care should always be exercised in dust/mist areas.
Other:	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Spill control procedures (land):	Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. If a large spill occurs notify appropriate authorities. In case of road spill or accident contact Chem-Trec (800-424-9300).
Spill control procedures (water):	Try to contain large spills with floating booms to prevent spill from spreading. Remove from surface by skimming or with suitable adsorbents. If a large spill occurs notify appropriate authorities (normally the National Response Center or Coast Guard at 800-
Waste disposal method:	424-8802). Do not empty into drains. All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this material when spilled. See Section 14.
Other:	CAUTION - If spilled material is cleaned up using a regulated solvent, the resulting waste mixture will be regulated.



SECTION 7	HANDLING AND STORAGE
Handling procedures:	Keep containers closed when not in use. Do not transfer to unmarked containers. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse. Handling temperatures should not exceed 60°C (140°F) to minimize danger of burns. Open containers carefully in a well ventilated area or use appropriate respiratory protection. Wash thoroughly after handling.
Storage procedures:	Store containers away from heat, sparks, open flame, or oxidizing materials. Extended storage at excessive temperatures may produce odorous and toxic fumes from product decomposition.
Additional information:	No additional information.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product:

		OSHA PEL	ACGIH TLV	
	Polydimethylsiloxane Tributyl Phosphate Dioctyl Sebacate	- 0.2mg/m3 -	-	
	any 8-hour work shift of a STEL – Short Term Expos	hted Average is the employee's average airborne exposure in hift of a 40-hour work week which shall not be exceeded. In Exposure Limit is the employee's 15-minute time weighted which shall not be exceeded at any time during a work day e limit is specified.		
	All base oils, including add	litive carriers, contain	<3.0% DMSO extractable material.	
Personal protection:		Applicable mainly to persons in repeated contact situations such as packaging of product, service/maintenance, and cleanup/spill control personnel.		
Respiratory protection:	meeting OSHA 1910.134 misting may occur, wear	None required if ventilation is adequate. Otherwise a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. Where misting may occur, wear an MSHA/NIOSH approved (or equivalent) half-mask form dust/mist air purifying respirator.		
Eye protection:	Eye protection is strongl vented/splash proof goggle	-	ear safety glasses with side shields or proved equivalent).	
Hand protection:		Impervious, chemically resistant gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption.		
Other protection:	nitrile rubber is recommen material use insulated pro	nded based on level tective equipment. La	npervious materials such as neoprene or of activity and exposure. If handling hot under soiled clothes. Properly dispose of s which cannot be decontaminated.	
Local control measures:	methods such as fume he areas. If vapor or mist is accordance with good eng	oods or area fans ma generated when the gineering practice mus sure. Eyewash static	aterial in an enclosed area. Mechanical y be used to reduce localized vapor/mist material handled, adequate ventilation in st be provided to maintain concentrations ons and showers should be available in	
Other:	-		voided in work areas where product is pap and water before eating, drinking or	

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SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Violet Viscous Eluid
Appearance. Odor:	Odorless
Cuon	
Odor threshold:	Not determined.
pH:	Not applicable.
Melting/Freezing point:	Not determined.
Initial boiling point:	Wet Boiling Point: > 207°C (404.6°F)
Boiling range:	Not determined.
Flash point:	>204°C.
Evaporation rate:	Not determined.
Flammability:	Not determined.
Upper flammable limit:	Not determined.
Lower flammable limit:	Not determined.
Vapor pressure:	Not determined.
Vapor density:	Not determined.
Relative density:	Not determined.
Solubility:	Negligible in water, miscible in most petroleum solvents.
Partition Coefficient:	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not determined.
Other	Not applicable.

SECTION 10

STABILITY AND REACTIVITY

Reactivity			
Chemical stability:	Material is chemically stable at room temperatures and pressure.		
Hazardous polymerization:	Will not occur.		
Conditions to avoid:	Avoid high temperatures and product contamination.		
Incompatibility with other materials:	Avoid contact with acids and strong oxidizing materials.		
Decomposition products:	Smoke, carbon monoxide, carbon dioxide, and other aldehydes of incomplete		
Other:	combustion. Oxides of carbon, nitrogen, and sulfur; reactive hydrocarbons and irritating Not applicable.		

SECTION 11

TOXICOLOGICAL INFORMATION

Acute toxicity (LD50) *See note at the bottom of the section

Oral:	>5000 mg/kg
Dermal:	>5000 mg/kg
Inhalation:	>20.0 mg/l
Skin irritation:	Non-irritant
Eye irritation:	Non-irritant
Dermal sensitization:	Not expected to have a sensitizing effect.
Respiratory sensitization:	Not expected to have a sensitizing effect.
Aspiration Hazard:	Not applicable



Chronic Toxicity	
Mutagenicity:	Not suspected of causing genetic defects
Carcinogenicity:	Not suspected of causing cancer.
Reproductive toxicity:	Not expected to have adverse effects on reproduction.
STOT-single exposure:	Not expected to have adverse effects.
STOT-repeated exposure:	Not expected to have long term adverse effects.
Other:	*All data in this section is based off calculations from Part 3 of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) utilizing information from the constituent components.

SECTION 12

ECOLOGICAL INFORMATION

Environmental toxicity		
Fish:	> 100 mg/l.	
Invertebrates:	> 100 mg/l.	
Aquatic plants:	> 100 mg/l.	
Microorganism:	> 100 mg/l.	
Persistence/Degradability:	This product is not expected to be readily biodegradable.	
Bioaccumulation:	Not determined.	
Mobility in soil:	Not determined.	
Other:	All classifications are based on calculations in Part 4 of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) utilizing information from the constituent components.	

Waste disposal:This product unadulterated by other materials can be classified as a non-hazardous
waste. Depending on use, used product may be regulated. Dispose of in a licensed
facility. Do not discharge product in to sewer system. Dispose of containers by crushing
or puncturing, so as to prevent unauthorized use of used containers. Waste
management should be in full compliance with federal, state, and local laws.OtherThe transportation, storage, treatment and disposal of RCRA waste material must be

DISPOSAL CONSIDERATIONS

r The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14

SECTION 13

TRANSPORT INFORMATION

Land Transport (DOT): Proper Shipping Name: Land Transport (TDG): Proper Shipping Name: Sea Transport (IMDG): Proper Shipping Name: Air Transport (IATA): Proper Shipping Name: Other: Not regulated for land transport. Not applicable. Not regulated for land transport. Not applicable. Not regulated for sea transport. Not applicable. Not regulated for air transport. Not applicable. Not applicable.



SECTION 15

REGULATORY INFORMATION

Federal Regulation			
Clean water act/oil:	Under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Control Act of 1990, this material is considered an oil. Any spill or discharges that produce a visible sheen or film on surface of water, or in waterways, ditches, or sewers leading to surface water must be reported. Contact the National Response Center at 800-424-8802.		
TSCA:	All components of this material are listed in the U.S. TSCA Inventory.		
Other TSCA:	Not applicable.		
SARA title III:	Section 302/304 extremely hazardous substances:		
	None.		
	Section 311, 312 hazard categorization:		
	Acute (immediate health effects):	NO	
	Chronic (delayed health effects):	NO	
	Fire (hazard):	NO	
	Reactivity (hazard):	NO	
	Pressure (sudden release hazard):	NO	
	Section 313 toxic chemicals:		
	No components present are at or greater than the de minimis (minimum reportable) concentration requirements for reporting.		
CERCLA:	For stationary/moving sources – reportable quantity (due to): Not hazardous due to the petroleum exclusion.		
State Regulations			
Right-to-know	Not determined.		
Other:	her: A release of this product, as supplied, is exempt from reporting under the Compr Environmental Response Compensation and Liability Act (CERCLA). However, may be reportable to the Nation Response Center under the Clean Water Act, 3 1321(b)(3) and (5) - see head of Section 15. Failure to report may result in su civil and criminal penalties.		
	Recommend contacting the local authorities in the event of local reporting requirements and also to aid in the cleanup.	any type of spill to determine	

SECTION 16	OTHER	OTHER INFORMATION		
	NFPA 704	NPCA-HMIS	KEY	
HEALTH:	1	1	0 = Minimal	
FIRE:	1	1	1 = Slight	
REACTIVITY:	0	0	2 = Moderate	
SPECIFIC HAZARD:	None	N/A	3 = Serious	
PROTECTION INDEX:	N/A	В	4 = Severe	
Version:	II			

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Revisions / Comments:

None. 06/25/15 Document review. 02/21/19

Internal use only:

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