

Lubrication Technologies Material Safety Data Sheet

Lubrication Technologies
900 Mendelssohn Ave N
Golden Valley, MN 55427

Emergency: 800-424-9300
Information: 763-545-0707
Fax: 763-545-9256

SECTION 1 CHEMICAL PRODUCT IDENTIFICATION

Product: PARTS UNLIMITED DOT 5 BRAKE FLUID
Synonyms/Other: Not applicable.
Item Number(s): 805-00011-12
MSDS Number: 2086
Product Type: Silicone fluid
Preparation/Revision Date: 08/06/2007

Pin 37030014
12oz. bottle

SECTION 2 COMPOSITION INFORMATION

INGREDIENTS	CAS #	%	OSHA TWA	OSHA STEL	ACGIH TWA	SKIN
Polydimethylsiloxane	63148-62-9	>90	Not defined	Not defined	Not defined	NO
Di-2-Ethylhexyl Sebecate	122-62-3	<5	Not defined	Not defined	Not defined	NO
Tributylphosphosphate	126-73-8	<5	5 mg/m ³	Not defined	2.2 mg/m ³	NO

Comments:

Not applicable

TWA – Time Weighted Average is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.

STEL – Short Term Exposure Limit is the employee's 15-minute time weighted average exposure which shall not be exceeded at any time during a work day unless another time limit is specified.

SECTION 3 HAZARDOUS IDENTIFICATION

Eye contact: Direct contact may cause irritation, redness, tearing and blurred vision.
Skin contact: No significant effects are expected from a single short term exposure
Inhalation: No significant effects are expected from a single short term exposure.
Ingestion: Low ingestion hazard with normal use.
Other: Not applicable.

SECTION 4 FIRST AID MEASURES

Eye contact: Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. If irritation persists seek medical attention. If material is hot, treat for thermal burns and take victim to hospital immediately.

Skin contact: Wash area with soap and water.

Inhalation: None needed.

Ingestion: Product is expected to be practically non-toxic. If large quantities are ingested seek medical attention. Do not induce vomiting unless directed by a physician.

Other: Not applicable.

SECTION 5 FIRE FIGHTING MEASURES

Flash point: >400°F PMCC
Flammable limits: Not determined.
Extinguishing media: Not determined.
Special firefighting procedures:

Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak.

Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible (safely). Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any

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	discoloration of storage tank due to fire.
Unusual fire & explosion hazards:	Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.
Byproducts of combustion:	None
Autoignition temperature:	Fires involving this product may release oxides of carbon.
Explosion data:	Not determined.
Other:	Not determined. Care should always be exercised in dust/mist areas.
	Not applicable.

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 800-424-8802).
Waste disposal method:	Most oil based products are incinerated, land-filled or reclaimed. 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. Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106 -- Flammable and Combustible Liquids. 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. Product should not be stored above 45°C (113°F).
Additional information:	No additional information.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection:	Applicable mainly to persons in repeated contact situations such as packaging of product, service/maintenance, and cleanup/spill control personnel.
Respiratory protection:	Not typically required.
Eye protection:	Eye protection is strongly recommended. If material is handled such that it

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Hand protection:	could be splashed into the eyes, wear safety glasses with side shields or vented/splash proof goggles (ANSI Z87.1 or approved equivalent).
Other protection:	Impervious gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption.
Local control measures:	Not applicable.
Other:	Not applicable.
	Consumption of food and drink should be avoided in work areas where product is present. Always wash hands and face with soap and water before eating, drinking or smoking.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor pressure:	Not determined.
Specific gravity:	0.96 at 25°C .
Solubility in water:	Not soluble
Percent volatile:	Not determined.
Vapor density (air=1):	>1.
Evaporation rate (n-Butyl Acetate=1):	Negligible.
Odor:	Characteristic
Appearance:	Blue viscous fluid
Viscosity:	42.7 cSt
Boiling point:	>65C
Pour/Freeze point:	Not determined.
Other:	Not applicable.

SECTION 10 STABILITY AND REACTIVITY

Stability:	Material is stable at room temperatures and pressure.
Conditions to avoid:	Avoid high temperatures and product contamination.
Incompatibility with other materials:	Avoid contact with acids and oxidizing materials.
Decomposition products:	Smoke, carbon monoxide and dioxide, and other aldehydes of incomplete combustion.
Hazardous polymerization:	Will not occur.
Other:	Not applicable.

SECTION 11 TOXICOLOGICAL INFORMATION

Oral toxicity:	Not determined.
Dermal toxicity:	Not determined.
Inhalation toxicity:	Not determined.
Dermal sensitization:	Prolonged or repeated contact may make skin more sensitive to other skin sensitizers. Based on data from similar materials.
Chronic toxicity:	Not determined.
Carcinogenicity:	The known components of this material are not listed by IARC, NTP, OSHA or ACGIH as known or suspected carcinogens.
Mutagenicity:	Not determined.
Reproductive toxicity:	Not determined.
Other:	Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

Environmental toxicity:	Not determined.
Environmental fate:	Not determined.
Other:	Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

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Waste disposal: Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. This product unadulterated by other materials may be classified as a non-regulated waste in some areas - but still needs to be disposed of at approved facilities. Waste management should be in full compliance with federal, state, and local laws.

Disposal consideration: Most used and non-use oils are incinerated by licensed burner facilities for heat value, or reclaimed by oil recycling services. Look in a local telephone directory or internet for headings under, 'Waste', 'Waste Services', 'Waste Disposal' for companies licensed to handle such material. Additional information can be obtained from local EPA, DNR, Sewer and Land-Fill sites. Unused, packaged fluids may be donated to other companies or charities (fluids MUST be unused).

Other: The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal, state, and local regulations.

SECTION 14 TRANSPORT INFORMATION

U.S. DOT shipping description: Not regulated.
U.S. DOT identification number: Not regulated.
U.S. DOT hazard classification: Not applicable.
Packaging class: Not applicable.
Other: Not applicable.

SECTION 15 REGULATORY INFORMATION

Clean water act/oil pollution act: 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):	Y
Chronic (delayed health effects):	NO
Fire (hazard):	NO
Reactivity (hazard):	NO
Pressure (sudden release hazard):	NO

Section 313 toxic chemicals: None

CERCLA: For stationary/moving sources - reportable quantity (due to): None

Other: **Tributylphosphate CAS 126-73-8 appears on the following lists:**
FL-Toxic
IL-Toxic
LA-RTK
MA-RTK Spill RQ 100 #
NJ-RTK ID# 1880
PA-RTK

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RI-Haz Toxic
Canada None 1%; No 1597

SECTION 16

OTHER INFORMATION

	NFPA 704	KEY
HEALTH:	1	0 = Minimal
FIRE:	1	1 = Slight
REACTIVITY:	0	2 = Moderate
SPECIFIC HAZARD:	NONE	3 = Serious
PROTECTION INDEX:	N/A	4 = Severe

External information: This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used. Lube-Tech must rely upon information provided by those materials manufacturers or distributors.

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File: Parts Unlimited DOT 5 Brake Fluid (2086)
Version: I

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Revisions / Comments: