

# Material Safety Data Sheet

## DOT-5 Silicone Brake Fluid



Data Prepared: October 15<sup>th</sup>, 2014

### SECTION I: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **DOT-5 Silicone Brake Fluid- MIL-PRF46176B**  
Product Code: DOT-5

Provided by: **CLEARCO PRODUCTS CO. INC.,**  
3430 G. Progress Drive  
Bensalem, PA 19020 U.S.A.

Telephone No: 001 215 639-2640  
Fax No: 001 215 639-2919  
E-mail: [info@clearcoproducts.com](mailto:info@clearcoproducts.com)  
Website: [www.clearcoproducts.com](http://www.clearcoproducts.com)

**Emergency Telephone: CHEM TEL: 1-800-255-3924 (DOMESTIC)**  
**+01-813-248-0585 (INTERNATIONAL)**

#### HMIS Rating

Flammability – 1      Reactivity – 0      Health – 1

### SECTION II: HAZARDS IDENTIFICATION

SARA Title III Hazard Classification: (x) Immediate Acute Health Hazard

Tributylphosphate	<2%	126-73-8	H
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#### Acute Signs/Effects of Overexposure:

Swallowing: Low acute oral toxicity. No deaths in rats were observed at 5,000 mg/kg for Polydimethylsiloxane. For Tributylphosphate, acute oral/rat LD50: 3,000mg/kg.

Eye Contact: Polydimethylsiloxane fluids are non-irritating to rabbit eyes. Tributylphosphate can cause eye irritation.

Skin Contact: Polydimethylsiloxane fluids are non-irritating to intact and abraded rabbit skin. Tributylphosphate can cause skin irritation.

Inhalation: This is a viscous fluid that does not easily form a mist or vapor and, therefore, inhalation hazards are minimal.

Skin Absorption: Animal tests for similar Polydimethylsiloxane fluids suggest very low acute dermal toxicity. Tributylphosphate may be absorbed thru the skin.

Other: None Known  
Chronic Effects of Overexposure: None Known

### SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT DESCRIPTION	%	CAS Number	OSHA Hazardous (H) Non-Hazardous (NH)
Polydimethylsiloxane	95%	63148-62-9	NH
Tributylphosphate	<2%	126-73-8	H
Di-2-Ethylhexyl Sebacate	<3%	122-62-3	NH

## SECTION IV: FIRST AID MEASURES

Ingestion: If swallowed and victim is fully conscious, induce vomiting immediately by giving two glasses of water and sticking finger down throat. GET IMMEDIATE MEDICAL ATTENTION.  
Skin: Wash with soap and water  
Inhalation: Although it would be difficult to inhale this product, seek medical attention if it should occur.  
Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

## SECTION V: FIRE FIGHTING MEASURES

Flash Point: (Method Used) >400°F / 204°C by PMCC  
Flammable Limits: LFL: No Data UFL: No Data

Extinguishing Media: Dry chemical, Foam, CO  
Special Fire Fighting Procedures: Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water

## SECTION VI: ACCIDENTAL RELEASE MEASURES

Spill Response: Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard.

Disposal Method: Disposal should be made in accordance with Federal, State and Local regulations. Incineration recommended in approved incinerator according to Federal, State, and Local regulations.

## SECTION VII: HANDLING AND STORAGE

Use with adequate ventilation. Avoid eye contact.  
Use reasonable care and store away from oxidizing materials.

## SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Provide adequate ventilation  
Respiratory Protection: None Known  
Eye and Face Protection: Safety Glasses  
Protective Gloves: work clothing and gloves  
Other Protective Equipment: maintain a sink, safety shower and eyewash fountain in the work area.

Precautions to be Taken in Handling and Storage: None Known  
Engineering Controls: None Known

## SECTION IX: PHYSICAL & CHEMICAL PROPERTIES

Boiling Point NA  
Specific Gravity (H<sub>2</sub>O=1) .958 @ 25°C  
Vapor Pressure (20°C) NA (mmHG)  
Vapor Density (Air = 1): NA  
Evaporation Rate (EE=1) NA  
% Volatile by Volume NA  
Melting Point N/A  
Solubility In Water (20°C) Insoluble  
Solubility in Organic Solvent Soluble in Toluene  
Appearance & Odor: Purple, viscous liquid/ odorless  
Viscosity: 42.7 mm/s

## SECTION X: STABILITY AND REACTIVITY

Stability: Stable  
Conditions to Avoid: Avoid heat and open flame  
Hazard Polymerization: Will not occur  
Incompatibilities: strong acids, strong bases, strong oxidizing materials  
Hazardous Decomposition/Combustion: Will not occur

## SECTION XI: TOXICOLOGICAL INFORMATION

### Exposure Limits in Air:

Chemical Name	AOGTH (TWA)	OSHA (TWA)	Other
Tributylphosphate	0.2ppm (2.2mg/m)	0.2ppm (2.5mg/m)	

## SECTION XII: ECOLOGICAL INFORMATION

Not yet determined.

## SECTION XIII: DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal. Call (989) 496-6315, if additional information is required.

## SECTION XIV: TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations

Call Clearco Products Co Inc, (215) 639-2640, if additional is required.

## SECTION XV: REGULATORY INFORMATION

TSCA Inventory Status: Product is listed on the TSCA Inventory

Transportation Status: Not Regulated

Reportable Quantity RO, under US EPA CERCLA: Not applicable

### State/International Right-to Know Regulations:

State	Tributylphosphate
CA	Not listed
CT	Not listed
FL	Toxic
IL	Toxic
LA	RTK
MA	TRK; Spill RQ 100lb
NJ	RTK ID# 1880
NY	Not listed
PA	RTK
RI	HAZ Toxic
Canada	None 1%; No 1597
EC inventory	<2% In compliance
Canada (WHMIS)	Not a controlled product under Canada's workplace HMIS
IARC:	None ingredients listed

## SECTION XVI: OTHER INFORMATION

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.