



A Division of
South West Lubricants, Inc.

Material Safety Data Sheet
DOT 5 Silicone Brake Fluid

Last updated: May 2012

1. Product and Company Identification

Product Trade Name Brake Fluid DOT 5 Silicone
CAS Number Not applicable for mixtures
Synonyms None
Generic Chemical Name None
Product Type Brake Fluid (Silicone Based)
Transportation Emergency CHEMTREC 1-800-424-9300 (Outside USA 703-527-3887)
MSDS No. 80-81911

2. Composition/Information on Ingredients

Common Name	Chemical Name	CAS No.	Range (%)
Dimethyl Polysiloxane		63148-62-9	<100
Di-2-Ethylhexyl Sebacate		122-62-3	<5
Tributyl phosphate		126-73-8	<3

3. Hazards Identification

EMERGENCY OVERVIEW

Caution: Eye and Skin Irritant

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Route(s) of Entry: Absorption, Eye, Inhalation, and Ingestion.

Potential Health Effects:

Health Hazards (Acute and Chronic) See signs and symptoms below

Signs and Symptoms May cause eye and skin irritation

Medical Conditions Generally Aggravated by Exposure None Known

Other Health Warnings None Known

Potential Environmental Effects Not Available

4. First Aid Measures

Emergency and First Aid Procedures:

Eye Contact Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

Skin Contact Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.



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Inhalation Remove to fresh air. If breathing becomes difficult get prompt medical attention.
Ingestion DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately.
Note to Physicians: N/D

5. Fire Fighting Measures

Suitable Extinguishing Media Dry Chemical, Foam, and CO2. Water Jet only to cool containers.
Unsuitable Extinguishing Media Water extinguisher.
Products of Combustion Silica and oxides of carbon are emitted.
Protection of Firefighters Wear self-contained positive pressure breathing apparatus and protective clothes.

6. Accidental Release Measures

Personal Precautions Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Environmental Precautions Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred.
Methods for Containment Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).
Methods for Cleanup Using a scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid to recover material.
Other Information If run-off occurs, notify proper authorities as required that a spill has occurred.

7. Handling and Storage

Handling Precautions Do not rub eyes with soiled hands. Do not eat, drink or smoke in the work area.
Storage Precautions Store at room temperature in tightly closed containers. Avoid direct or prolonged contact with eyes and skin. Wash hands thoroughly after handling.

8. Exposure Controls/Personal Protection

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Dimethyl Polysiloxane	N/E	N/E	Not Available
Tributyl phosphate	0.46 ppm	0.2 ppm	Not Available
Di-2-Ethylhexyl Sebacate	N/E	N/E	Not Available
Dimethyl Polysiloxane	N/E	N/E	Not Available
Tributyl phosphate	0.46 ppm	0.2 ppm	Not Available
Di-2-Ethylhexyl Sebacate	N/E	N/E	Not Available



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Engineering Controls See Section above for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment Wear safety glasses with side shields and latex gloves.

9. Physical and Chemical Properties

Boiling Point	500°F
Melting Point	N/A
Boiling Range	N/A
Freezing Point	N/A
Solubility In Water	Insoluble
Evaporation Rate (Butyl Acetate = 1)	N/A
Flash Point	402°F
Flash Point Method	COC
Odor Threshold	N/A
Appearance and Odor	Purple, viscous liquid/ odorless
Vapor Density (AIR = 1)	N/A
Vapor Pressure (mm Hg.)	N/A
pH Range	N/A
Partition Coefficient	N/A
Decomposition Temp	N/A
Auto-Ignition Temp	N/A
Lower Explosive Limit	N/A
Upper Explosive Limit	N/A
Specific Gravity (H2O = 1)	0.96
Other Information:	
Viscosity	42.7 mm/s
VOC contents	0%

10. Stability and Reactivity Data

Stability	Stable
Conditions to Avoid	See Incompatible materials below.
Incompatible Materials	Strong oxidizing agents, strong acids and strong bases.
Hazardous Decomposition Products	Silica and oxides of carbon are emitted.
Possibility of Hazardous Reactions	Will not occur.

11. Toxicological Information

Low Acute Oral Toxicity For polydimethylsiloxane, No deaths in rats were observed at 5000 mg/kg.
For Tributylphosphate, acute oral/rat LD50 3000 mg/kg.

12. Ecological Information

No Data Available



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13. Disposal Considerations

Dispose of recovered non-usable product in a manner approved for this material. Discarded material is not a RCRA hazardous waste. Before attempting clean up, refer to other sections of the MSDS and dispose of product in accordance with local, state, and federal regulations.

14. Transport Information

Transportation Information Shipping Information (CFR and IMDG):

Proper Shipping Name	NA
DOT Hazard Class	None Required
DOT UN Number	None required.
IMDG Shipping Name	NA
Label Information	No data available.

15. Regulatory Information

SARA 313 Reportable Chemicals	None
USA TSCA	All components of this material are listed on the US TSCA Inventory.
State RTK Chemicals	Tributylphosphate 126-73-8
Florida	Toxic
Illinois	Toxic

NFPA **Health: 1** **Fire: 1** **Reactivity: 0**

16. Other Information

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.