



DOT 5 SILICONE BRAKE FLUID

Released: 2015-06-01

Version: 1.1
Revision Date: 2015-05-28

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Supplier: Maxima Racing Oils 9266 Abraham Way Santee, CA 92071 USA +1 619 449 5000	Product Name: DOT 5 Silicone Brake Fluid Article Number: 80-81911 Applications: Disk and Drum Hydraulic Brake Fluid <i>Do not use where DOT 5.1 is specified</i> Emergency Telephone: CHEMTREC +1 703 527 3887 (24 hours)
--	---

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Irritation: Category 3
 Carcinogenicity: Category 2
 Aquatic Toxicity: Acute Category 3

GHS Pictogram



Signal Word

Warning

Hazard Statements

H315 Causes mild skin irritation.
 H351 Suspected of causing cancer.
 H402 Harmful to aquatic life.

Precautionary Statements

Prevention	Wear eye and skin protection before handling. Do not breathe mist/vapors/spray. Use in a well ventilated area. Wear protective gloves/protective clothing.
Response	IF IN EYES: Flush with water for 15 minutes and consult a physician. Do not ingest. IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician
Storage	None
Disposal	Keep out of waterways. Check local, national, and international regulations for proper disposal
Other Hazards	Mildly irritating to the eyes and skin. Respiratory exposure is likely to cause irritation.



DOT 5 SILICONE BRAKE FLUID

Released: 2015-06-01

Version: 1.1
Revision Date: 2015-05-28

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Content %	CAS Number
Polydimethylsiloxane	90-100	63148-62-9
Tributylphosphate	1-5	126-73-8
Additives	<1	Proprietary

4. FIRST-AID MEASURES

Inhalation	Inhalation is unlikely. If mists or sprays are inhaled, move victim to fresh air. If breathing is difficult, give artificial respiration and consult a physician.
Skin Contact	Remove affected clothing and launder before reuse. Wash affected area for at least 15 minutes with soap and running water. Prolonged or repeated exposure may cause defatting of the skin – symptoms include redness, dryness, cracking.
Eye Contact	Remove contact lenses, if worn. Rinse with running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention.
Ingestion	Do NOT induce vomiting. If a significant volume has been swallowed, get medical attention immediately.
Indication of Immediate Medical Attention Needed	Immediate medical attention is not required.
Notes to Physician	Treat appropriately

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	For small fires use dry chemical or CO ₂ . For large fires apply large (flooding) quantities of water from as far away as possible in a spray or mist, or use dry chemical or CO ₂ .
Specific Hazards Arising From The Chemical	Not Determined.
Special Protective Equipment And Precautions For Fire-Fighters	Wear a self-container breathing apparatus if necessary based on concentrations of smoke. Evacuate in accordance with emergency planning. Use water spray to keep containers cool

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ventilate if released in a confined area. Avoid breathing mists/vapors/spray.
-----------------------------	---



DOT 5 SILICONE BRAKE FLUID

Released: 2015-06-01

Version: 1.1
Revision Date: 2015-05-28

	Product may present slipping hazard if left on the floor. Beware of vapors pooling in low areas to explosive concentrations.
Environmental Hazards	Avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways or groundwater.
Methods/Materials for Cleaning up	Use a fluid pump to remove bulk liquid. Residual liquid can be absorbed on inert material. Dispose of contaminated adsorbent as hazardous waste. Wash the area with water after excess product and adsorbent is removed.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Use in a well ventilated area. Avoid breathing mists/vapors/spray. Avoid handling hot product where possible. Use appropriate personal protective equipment to avoid contact with skin and eyes. Note the location of nearest emergency shower and eye wash station before use.
Conditions for Safe Storage	Store with the lid tightly closed in a cool, dry, well-ventilated place. Product is hygroscopic and effectiveness may diminish if opened product is stored for long periods of time. Dispose of spilled or used material in accordance with local, regional, national, and international regulations. Do not store or handle at elevated temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Tributylphosphate	OSHA TWA: 0.2ppm ACGIH TWA: 0.2ppm
Appropriate Engineering Controls	Use in a well ventilated area. Local and general ventilation should keep methanol vapor concentration below permissible limits. Where exposure potential exceeds recommended limits, use a NIOSH/OSHA approved supplied air respirator as recommended. Vapors are heavier than air and will tend to accumulate in low-lying areas.	
Personal Protection		
Respiratory Protection:	Use a NIOSH or CEN approved full-face respirator with multi-purpose combination or type ABEK respirator cartridges as a backup to engineering controls. If the respiratory is the only means of protection, use a full-face supplied air respirator.	
Eye Protection:	Use tightly-fitting chemical splash goggles. Use face shield, especially where splashing is likely to occur.	
Skin/Body Protection:	No special protective clothing is normally required. Use chemical resistant pants and jackets, preferably of butyl or nitrile rubber.	



DOT 5 SILICONE BRAKE FLUID

Released: 2015-06-01

Version: 1.1
Revision Date: 2015-05-28

Hand Protection: Use nitrile, butyl, viton, or fluoroelastemer gloves. Even appropriate materials may degrade after prolonged exposure with product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Purple
Odor	Not determined
Odor Threshold	No data available
pH	No data available
Freezing Point	No data available
Boiling Point	> 260°C / 500°F
Flash Point	> 120°C / 248°F
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper Explosion Limit	No data available
Lower Explosion Limit	No data available
Vapor Pressure	No data available
Vapor Density (Air=1)	No data available
Relative Density	0.985 mg/cu. cm @ 25.0°C
Solubility	Insoluble in water and organic solvents
Partition Coefficient: n-octanol/water	No data available
Auto Ignition Temperature	No data available
Decomposition Temperature	No data available
Volatile Organic Compounds (VOC)	No data available
Viscosity	42.7 mm/s ² @ 40°C

10. STABILITY AND REACTIVITY

Reactivity	Not expected to be reactive.
Chemical Stability	Material is normally stable at ambient temperatures and pressures.
Possibility of Hazardous Reactions	Not determined
Conditions to Avoid	Keep away from strong oxidizers as reaction may occur
Incompatible Materials	Keep away from strong oxidizers and strong acids/bases.
Hazardous Decomposition Product	Primarily oxidizes to carbon dioxide in normal combustion conditions. In lower oxygen environments carbon monoxide, formaldehyde, or formic acid may be formed.



DOT 5 SILICONE BRAKE FLUID

Released: 2015-06-01

Version: 1.1
Revision Date: 2015-05-28

11. TOXICOLOGICAL INFORMATION

Potential Health Hazards

Eye Contact: Expected to cause mild to moderate irritation of the eye if exposed to liquid or in high vapor concentrations. May cause irritation, tearing, or burning of the eyes.

Skin Contact: Expected to be mildly irritating to the skin. Symptoms of irritation may include redness, drying, and cracking of the skin.

Inhalation: High vapor concentrations may cause transient irritation to the respiratory system.

Ingestion: Toxicity is similar to that for oral ingestion, though this exposure mode is far less likely to occur.

Chronic Effects of Overexposure: This product may cause dryness or defatting of the skin, dermatitis, or may aggravate existing skin conditions.

Sensitization: None of the components have been found to cause sensitization in animals or humans.

Mutagenicity: Available information does not suggest that this product is a germ cell mutagen

Reproductive Toxicity: Available information does not suggest that this product is a reproductive toxin.

Carcinogenicity: This product and its components are NOT listed by the IARC, NTP, ACGIH, or OSHA as carcinogens

12. ECOLOGICAL INFORMATION

Ecotoxicity

Freshwater Fish Acute LC50 > 170 mg/L (96h, goldfish)

Freshwater Invertebrates Acute EC50 > 70mg/l (48h, water flea)

Algae Acute EC50 > 20mg/l (72h, green algae)

Biodegradation No data available. Expected to have little to no biodegradation potential and likely to degrade primarily through photochemical oxidation

Bioaccumulation Product adheres to soil and is unlikely to be absorbed by organisms.

Tributylphosphate in this product has an BCF of 21 – 35.

Mobility in soil Product has high mobility in soil, slowly evaporates at environmentally relevant temperatures

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Disposal All disposal practices must be in accordance with local, regional, national, and international regulations. Store material for disposal as indicated in Section 7. Disposal by controlled incineration or by secure land fill may be acceptable – review applicable regulations or regulatory bodies before making disposal decisions.

Contaminated Empty containers are likely to contain flammable vapors or explosive



DOT 5 SILICONE BRAKE FLUID

Released: 2015-06-01

Version: 1.1
Revision Date: 2015-05-28

Containers mixtures of vapor and air. Do NOT weld, cut, or grind empty containers. Rinse empty containers with water and dispose of in accordance with local, regional, national, and international regulations.

14. TRANSPORT INFORMATION

Not considered dangerous goods by transport regulations.

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			
TDG		Not Regulated			
IMDG		Not Regulated			
IATA		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form

Special precautions: None known.

15. REGULATORY INFORMATION

CERCLA: No components listed. See 40 CFR 302

EPA SARA 313 Hazard Classification: No components listed as Extremely Hazardous Substances list. See 40 CFR 355

EPA SARA 311/312: Acute Hazard – YES, Chronic Hazard – NO, Fire Hazard – NO, Reactivity Hazard - NO

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

EU: Components of this product and similar mixtures are registered under REACH. Consult the European Chemicals Agency regarding REACH registration, reporting, and other legal requirements for methanol solutions before importing to the EU.

New Zealand: May require notification before sale under New Zealand Regulations

Canada: No information available

Canada WHMIS: Not determined

Korea: All of the components in this product are listed on the Korean Existing Chemical Inventory (KECL).

State Regulations

Right to Know Component

Polydimethylsiloxane

(CAS # 63148-62-9)

Tetraethylene glycol

(CAS # 112-60-7)

Right to Know States

NJ, PA

MA, PA, NJ, LA



DOT 5 SILICONE BRAKE FLUID

Released: 2015-06-01

Version: 1.1
Revision Date: 2015-05-28

16. OTHER INFORMATION

NFPA Rating (NFPA 704):	Health: 2	Fire: 1	Instability: 0
HMIS Rating:	Health: 2	Fire: 1	Physical Hazard: 0

Date of Revision: May 28, 2015

Date of Previous Revision: August 2004

Revision History:

5/28/15: Converted to GHS format. All section revised

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.