

**MSDS - Material Safety Data Sheet****Product Name: DOT 5 SILICONE BRAKE FLUID**

MSDS No.: M4011

**I. Basic Information:****Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Country:****Contact:** Robert Geer**Information Telephone Number:** 704-684--181 1**Emergency Contact:** Rocky Mountain Poision Control Center**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** DOT 5 SILICONE BRAKE FLUID**MSDS No.:** M4011**Issue Date:** 10/28/2008**Supersedes Date:** 06/20/2005**II. 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).

**Potential Health Effects****Route(s) of Entry:**

Absorption, Eye, Inhalation, and Ingestion.

**Health Hazards (Acute and Chronic):**

See signs and sysmptoms 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

**III. Composition/Information on Ingredients:**

Chemical Name	CAS No.	% Range	Trade Secret
Di-2-Ethylhexyl Sebacate	122-62-3	3	
Dimethyl Polysiloxane	63148-62-9	95	
Tributyl phosphate	126-73-8	2	

**IV. 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.

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

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### ***V. 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.

### ***VI. 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.

### ***VII. Handling and Storage:***

**Handling Precautions:**

Store at room temperature in tightly closed containers. Avoid direct or prolonged contact with eyes and skin. Wash hands thoroughly after handling.

**Storage Precautions:**

Do not rub eyes with soiled hands. Do not eat, drink or smoke in the work area.

### ***VIII. Exposure Controls/Personal Protection:***

<b>Chemical Name</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Other Limits</b>
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

**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.

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**IX. Physical and Chemical Properties:**

<b>Boiling Point:</b> 500°F	<b>Melting Point:</b> N/A
<b>Boiling Range:</b> Not Available	<b>Freezing Point:</b> Not Available
<b>Solubility In Water:</b> Insoluble	<b>Evaporation Rate (Butyl Acetate = 1):</b> N/A
<b>Flash Point:</b> 402°F	<b>Flash Point Method:</b> COC
<b>Odor Threshold:</b> Not Available	<b>Appearance and Odor:</b> Blue, viscous liquid/ odorless
<b>Vapor Density (AIR = 1):</b> N/A	<b>Vapor Pressure (mm Hg.):</b> N/A
<b>pH Range:</b> Not Available	<b>Partition Coefficient:</b> Not Available
<b>Decomposition Temp:</b> Not Available	<b>Auto-Ignition Temp:</b> Not Available
<b>Lower Explosive Limit:</b> N/A	<b>Upper Explosive Limit:</b> N/A
<b>Specific Gravity (H2O = 1):</b> 0.96	
<b>Other Information:</b> Viscosity: 42.7 mm/s VOC contents: 0 %	

**X. Stability and Reactivity:****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

**XI. 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.

**XII. Ecological Information:**

N/D

**XIII. Disposal Considerations:**

Dispose of in accordance with all applicable government laws and regulations.

**XIV. Transport Information:****Shipping Name:** Not Available**DOT Hazard Class:** Not Available**UN/NA#:** Not Available**Transportation Information:**

U.S. Department of Transportation (DOT)

Non-Bulk: Not Regulated

Bulk: Not Regulated

**DOT Subsidiary Hazard Class:** Not Available**Packing Group:** Not Available

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### XV. Regulatory Information:

SARA 313 Reportable Chemicals:  
None

USA TSCA: All components of this material are listed on the US TSCA Invento

State RTK Chemicals:  
Tributylphosphate 126-73-8

Florida: Toxic  
Illonis: Toxic

### XVI. Other Information:

Chemical State:  Liquid  Gas  Solid

Chemical Type:  Pure  Mixture

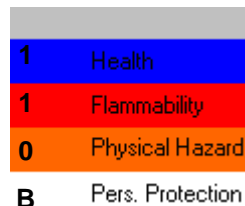
Hazard Category:  
 Acute  Chronic  Fire  
 Pressure  Reactive



#### Additional Manufacturer Warnings:

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

N/E: Not Established  
N/D: Not Determined  
N/A: Not Applicable  
N/AV: Not Available



#### Additional Product Information:

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.