

# HEAVY DUTY DOT 5 SILICONE BRAKE FLUID

## MATERIAL SAFETY DATA SHEET

MSDS No: Product Name: Manufacturers Code:	HEAVY DUTY DOT 5 SILICONE BRAKE FLUID DOT500	<b>QUICK SMART PRODUCTS</b> <b>53 ASSEMBLY DRIVE</b> <b>TULLAMARINE VIC 3043</b> ABN: 40 959 725 049 <b>(03) 9338 6655 (BH)</b> <b>(03) 9336 7945 (AH)</b>
Date:	April 2011	

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	HEAVY DUTY DOT 5 SILICONE BRAKE FLUID
<b>Company Name:</b>	QUICK SMART PRODUCTS
<b>Address:</b>	53 Assembly Drive Tullamarine Vic 3043
<b>Telephone/Fax:</b>	(03) 9338 6655 (BH) Poisons Information Centre 131126 (AH) Fax: (03) 9335 2598
<b>Recommended Use:</b>	Brake Fluid (Silicone Based)

### 2. HAZARDS IDENTIFICATION

<b>Statement of Hazardous/Dangerous Nature:</b>	HAZARDOUS SUBSTANCE NON-DANGEROUS GOODS Classified as Hazardous according to the criteria of NOHSC Australia. Classified as Non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)
<b>UN No:</b>	None Allocated
<b>Hazchem Code:</b>	None Allocated
<b>Poisons Schedule:</b>	Not Scheduled
<b>Dangerous Goods Class:</b>	None Allocated
<b>Packaging Group:</b>	None Allocated

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS No	Proportion
Polydimethylsiloxane	63148-62-9	60-100%
Tributyl Phosphate	126-73-8	2.25%

### 4. FIRST AID MEASURES

Poison Information Centres (131126) in each State Capital City can provide additional assistance for scheduled poisons.

<b>Ingestion:</b>	If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention.
<b>Eye:</b>	Hold eyelid open and flush with copious amounts of clean water for at least 15 minutes or until all contaminants are washed out completely. Seek medical attention if irritation develops or persists or if visual changes occur.
<b>Skin:</b>	Remove contaminated clothing and launder before re-use. Wash contaminated skin with copious amounts of soap and clean water. Discard internally contaminated items, like gloves and footwear. Seek medical attention if irritation develops or persists.
<b>Inhaled:</b>	Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove the source of contamination and move the affected person to fresh air. Allow patient to assume most comfortable position and keep warm. If the victim is not breathing, apply artificial resuscitation and seek urgent medical attention. In serious cases of over-exposure, seek immediate medical attention.

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**First Aid Facilities:** Normal washroom facilities are generally suitable. It is recommended that an eyewash station be available and ready for use.

**Advice to Doctor:** Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide.

**Protective Equipment for Fire Fighters:** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

**Fire/Explosion Hazard:** Product will burn under fire conditions.

**Hazardous Decomposition or Byproducts:** Formaldehyde, oxides of carbon, silica (crystalline).

### 6. ACCIDENTAL RELEASE MEASURES:

**Spills:** Spillages are slippery. Avoid accidents, clean up immediately. Personnel involved in cleaning up any spills are to wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Cordon off the spillage area. Isolate the source of the spillage or leak. Contain using sand or soil. Prevent run off into drains, sewers and waterways. Advise local authorities immediately if release into sewer and/or waterways is expected to have occurred. Absorb with an inert absorbent seal in properly labelled containers for disposal. Rinse the area clean with detergent and excess water.

**Disposal:** Dispose of in accordance to Federal, EPA, State and Local Regulations. Disposal into sewer system is not permitted.

### 7. HANDLING AND STORAGE

**Handling:** Repeated or prolonged exposure to the material without personal protection should be avoided in order to lessen the possibility of disorders. Maintain good standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using the toilet facilities. Keep containers closed when not in use.

**Storage:** Combustible Liquid, will not burn unless preheated. Refer to AS1940 – Storage and Handling of Flammable and Combustible Liquids. Store in a clean, dry, well ventilated place out of direct sunlight and away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks.

**Storage Temperatures:** Minimum 50°C Maximum 25°C

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MSDS No:		<b>QUICK SMART PRODUCTS</b>
Product Name:	HEAVY DUTY DOT 5 SILICONE BRAKE FLUID	<b>53 ASSEMBLY DRIVE</b>
Manufacturers Code:	DOT500	<b>TULLAMARINE VIC 3043</b>
		ABN: 40 959 725 049
		<b>(03) 9338 6655 (BH)</b>
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### 8. EXPOSURE CONTROL

Occupational Exposure Limits:	Name	mg/m <sup>3</sup> (STEL)	ppm (STEL)	mg/m <sup>3</sup> (TWA)	ppm (TWA)	TWA Footnote
	Tributyl phosphate	-	-	2.2	0.2	
<b>Biological Limit:</b>	No biological limit allocated.					
<b>Engineering Controls:</b>	Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.					
<b>Respiratory Protection:</b>	If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.					
<b>Eye Protection:</b>	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standards AS/NZS 1337 – Eye Protectors for Industrial Applications.					
<b>Hand Protection:</b>	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 – Occupational Protective Gloves – Selection, Use and Maintenance.					
<b>Body Protection:</b>	Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant plastic apron is recommended where large quantities are handled.					

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Odourless, purple viscous liquid
<b>Vapour Density:</b>	Not available
<b>Viscosity:</b>	42-43 cSt @ 25°C
<b>Melting Point:</b>	Not available
<b>Boiling Point:</b>	Not Available
<b>Vapour Pressure:</b>	<0.1 mmHg @ 20°C
<b>Specific Gravity:</b>	0.958 @ 25°C
<b>Flash Point:</b>	206°C Tagliabue Closed Cup
<b>Flamm. Limit LEL:</b>	No data available
<b>Flamm. Limit UEL:</b>	No data available
<b>Solubility in Water:</b>	Insoluble

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Flamm. Limit LEL: 5.4mm<sup>2</sup>/S @ 100°C

### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of storage and handling.
<b>Conditions to Avoid:</b>	Avoid sources of ignition, heat, open flames or direct sunlight.
<b>Incompatible Materials:</b>	Strong bases, acids and oxidising agents.
<b>Hazardous Combustion Products:</b>	Under fire conditions this product will emit oxides of carbon, silica (crystalline) and formaldehyde.
<b>Hazardous Polymerization:</b>	Will not occur.

### 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information:</b>	LD50 – lethal dose 50% of test species, 3000 mg/kg, rat. LD50 – lethal dose 50% of test species, 3100 mg/kg, rabbit. LC50 – lethal concentration 50% of test species, 28000 mg/cu m/1 hr, rat.
<b>Risk Statement:</b>	R36/38 Irritating to eyes and skin.
<b>Safety Statement:</b>	S24/25 Avoid contact with skin and eyes. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
<b>Hazard Category:</b>	Irritant.
<b>Health Effects:</b>	
<b>Acute – Swallowed:</b>	The liquid may irritate the gastrointestinal tract and may cause nausea and vomiting.
<b>Acute – Eye:</b>	Severe irritant. Can cause redness, tissue destruction, irritation.
<b>Acute – Skin:</b>	Low acute dermal toxicity. Irritant. Can cause redness, inflammation, irritation on prolonged contact.
<b>Acute – Inhaled:</b>	Low acute inhalation toxicity. May cause upper respiratory tract irritation.
<b>Chronic:</b>	This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	No ecological data is available for this specific product
<b>Persistence / Degradability:</b>	Not available.
<b>Mobility:</b>	Not available.
<b>Bioaccumulative Potential:</b>	Not available.
<b>Environmental Protection:</b>	Avoid contaminating waterways. Do not discharge the product into sewers or any body of waterway.

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### 13. DISPOSAL CONSIDERATIONS

**Disposal Considerations:** Product should be placed in sealed, properly labelled containers for disposal. Dispose of waste according to Federal, EPA, State and Local Regulations. Assure conformity with all applicable regulations.

### 14. TRANSPORT INFORMATION

**Transport Information:** Classified as Non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code). Refer to relevant regulations for storage and transport requirements.

### 15. REGULATORY INFORMATION

**Poisons Schedule:** Not Scheduled

**AICS (Australia):** All ingredients are listed in the Australian Inventory of Chemical Substances (AICS)

### 16. OTHER INFORMATION

**Contact Person/Point:** Technical Information: (03) 9338 6655.

**Date of Preparation or last revision of MSDS:** MSDS reviewed: 7 April 2011

*This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled in the workplace and in conjunction with other materials. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.*

END OF MSDS