

# HEAVY DUTY DOT 4 BRAKE FLUID

## SAFETY DATA SHEET

MSDS No:		<b>QUICK SMART PRODUCTS</b> <b>53 ASSEMBLY DRIVE</b> <b>TULLAMARINE VIC 3043</b> ABN: 40 959 725 049 Ph: (03) 9338 6655 (BH) Fax: (03) 9335 2598 Email: <a href="mailto:gsmart@bigpond.net.au">gsmart@bigpond.net.au</a> Web: <a href="http://www.quicksmartproducts.com.au">www.quicksmartproducts.com.au</a>
Product Name:	HEAVY DUTY DOT 4 BRAKE FLUID	
Manufacturers Code:	DOT4-500	
Date:	August 2016	

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	HEAVY DUTY DOT 4 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) (03) 9336 7945 (AH)
<b>Recommended Use:</b>	Brake Fluid

### 2. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	Not Hazardous
<b>Dangerous Goods Classification</b>	Not Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
<b>GHS Label Elements</b>	
<b>Signal Word</b>	Not Applicable
<b>Symbol(s)</b>	Not Applicable
<b>Hazard Statements</b>	No known significant effects or critical hazards.
<b>Precautionary Statements</b>	
<b>Prevention</b>	Not Applicable
<b>Response</b>	Not Applicable
<b>Storage</b>	Not Applicable
<b>Disposal</b>	Not Applicable
<b>Other Hazards which do not result in classification</b>	None known

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Substance/Mixture</b>	Mixture
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This product does not contain any hazardous ingredients at or above regulated thresholds.

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#### 4. FIRST AID MEASURES

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

##### *Description of necessary measures according to routes of exposure*

<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. If potentially dangerous quantities of this material have been swallowed, seek medical attention immediately.
<b>Eye</b>	In case of contact, 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.
<b>Skin</b>	Wash skin thoroughly with soap and clean water. Remove contaminated clothing. Wash clothing before reuse. Seek medical attention if irritation develops or persists.
<b>Inhaled</b>	If inhaled, remove to fresh air. Seek medical attention if symptoms appear.

##### **Most Important Symptoms & Effects, Both Acute & Delayed, Caused by Exposure**

See Section 11 for more detailed information on health effects and symptoms.

<b>Protection for First Aiders</b>	No action shall be taken involving any personal risk or without suitable training.
<b>First Aid Facilities</b>	Normal washroom facilities are generally suitable. It is recommended that an eyewash station be available and ready for use.
<b>Notes to Physician</b>	Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
<b>Suitable Extinguishing Media</b>	In case of fire use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.
<b>Unsuitable Extinguishing Media</b>	Do not use water jet.
<b>Specific Hazards Arising from the Chemical</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous Thermal Decomposition Products</b>	No specific data.
<b>Fire/Explosion Hazard</b>	This material is not explosive as defined by established regulatory criteria.
<b>Protective Equipment for Fire Fighters</b>	Fire Fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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### 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Avoid accidents, clean up immediately. Slippery when spilled. Do not touch or walk through spilt material. Avoid contact with eyes and skin. Wear appropriate personal protective equipment. Refer Section 8. Eliminate all sources of ignition. Increase ventilation. Cordon off the spillage area. Isolate the source of the spillage or leak.
<b>Containment</b>	Stop the leak if safe to do so. Isolate the danger area. Contain the spill and absorb with a proprietary absorbent material, sand or earth.
<b>Clean Up Procedures</b>	
<b>Small Spills</b>	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.
<b>Large Spills</b>	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 if safe to do so. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licenses waste disposal contractor.
<b>Environmental Precautionary Measures</b>	Use appropriate containment to avoid environmental contamination. Do not let product enter drains, surface water, sewers or water courses. Advise local authorities if this occurs.
<b>Evacuation Criteria</b>	Evacuate personnel to safe areas.
<b>Disposal</b>	Dispose of waste in accordance to Federal, EPA, State and Local Regulations. Disposal into sewer system is not permitted.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Maintain good standards of personal hygiene when using this product i.e. washing hands prior to eating, drinking, smoking or using the toilet facilities and at the end of the working day. Keep containers closed when not in use. Avoid breathing mists/vapours/spray.
<b>Storage</b>	Combustible Liquid 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 and oxidising agents. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks.

### 8. EXPOSURE CONTROL

<b>Occupational Exposure Limits</b>	No exposure standards have been established for this material, however, the TWA National Occupational Health and Safety Commission (NOHSC) exposure standards for oil mist is 5 mg/m <sup>3</sup> . As with all chemicals, exposure should be kept to the lowest possible levels. As published by the National Occupational Health and Safety Commission (NOHSC): TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.
<b>Biological Limit</b>	No biological limit allocated.

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<b>Engineering Controls</b>	Special ventilation is not normally required when using this product in normal use scenarios. However, in the operation of certain equipment, at elevated temperatures, or in confined spaces mists or vapour may be generated and local exhaust ventilation should be provided to maintain airborne concentration levels below the nominated exposure standard and at an acceptable level that does not cause irritation.
<b>Respiratory Protection</b>	During routine operation a respirator is not required. However, if mists or vapours are generated, an approved half face organic vapour/particulate respirator is required. 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 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 protective gloves if prolonged or repeated contact is likely. Recommended: Butyl gloves. 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>	None required. However, use of protective clothing is good industrial practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Colour</b>	Straw. Amber
<b>Odour</b>	Mild
<b>Flash Point</b>	137°C (Closed Cup)
<b>Vapour Pressure</b>	Not Available
<b>Vapour Density</b>	Not Available
<b>Viscosity</b>	Dynamic: 0.005 Pa s (5 cP) at 20°C Kinematic: 1.5 mm <sup>2</sup> /s (1.5 cSt) at 100°C
<b>pH</b>	8.4
<b>Boiling Point/Range</b>	260°C (500°F)
<b>Melting Point/Range</b>	Not Available
<b>Relative Density/ Specific Gravity</b>	Not Available
<b>Density</b>	1060 kg/m <sup>3</sup> (1.06 g/cm <sup>3</sup> ) at 20°C
<b>Solubility</b>	Soluble in water

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### 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of storage and handling.
<b>Conditions to Avoid</b>	Observe the usual precautionary measures for handling chemicals. Do not heat the container, leave it in direct sunlight or leave the container open when not in use. Avoid extreme temperatures, strong oxidizers, fire.
<b>Incompatibility with Various Substances/ Hazardous Reactions</b>	Reactive or incompatible with the following materials: oxidizing materials and moisture. Slightly reactive or incompatible with the following materials: acids.
<b>Hazardous Decomposition Products</b>	No specific data available.

### 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	No toxicity data is available for this specific product.
<b>Effects &amp; Symptoms</b>	
<b>Eyes</b>	No significant health hazards identified.
<b>Skin</b>	No significant health hazards identified.
<b>Inhalation</b>	No significant health hazards identified.
<b>Ingestion</b>	No significant health hazards identified.
<b>Chronic Toxicity</b>	
<b>Carcinogenic Effects</b>	No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, IARC, EC or NOHSC (Australia).
<b>Mutagenic Effects</b>	No known significant effects or critical hazards.

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No ecological data is available for this specific product
<b>Persistence / Degradability</b>	The biodegradability of this material has not been determined.
<b>Mobility</b>	Not available.
<b>Bioaccumulative Potential</b>	Not available.
<b>Environmental Protection</b>	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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### 13. DISPOSAL CONSIDERATIONS

<b>Disposal Considerations</b>	The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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### 14. TRANSPORT INFORMATION

<b>Transport Information</b>	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.
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### 15. REGULATORY INFORMATION

<b>SUSMP</b>	A poison schedule has not been allocated for this product.
<b>AICS (Australia)</b>	All ingredients are listed in the Australian Inventory of Chemical Substances (AICS)

### 16. OTHER INFORMATION

<b>Contact Person/Point</b>	Technical Information: (03) 9338 6655.
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<b>Date of Preparation or last revision of MSDS</b>	MSDS reviewed: 15 August 2016
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#### Abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road & Rail
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>CAS Number</b>	Chemical Abstracts Service Registry Number
<b>EMS</b>	Emergency Schedules
<b>GHS</b>	Globally Harmonised System of Classification and Labelling
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters which gives information to emergency services
<b>IATA</b>	International Air Transport Association
<b>IMDG</b>	International Maritime Dangerous Goods
<b>mg/m<sup>3</sup></b>	Milligrams per Cubic Metre
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>ppm</b>	Parts Per Million
<b>STEL</b>	Short Term Exposure Limit
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons
<b>TWA</b>	Time Weighted Average

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*This SDS 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 SDS in the context of how the product will be handled in the workplace and in conjunction with other materials. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations. 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