



# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**Supplier Name** AUSTRALIAN AUTOMOTIVE DISTRIBUTION

### PBFS-xx BRAKE FLUID SUPER DOT4

**PRODUCT NAME**

**Use(s)** BRAKE FLUID

**Synonym(s)**

**MSDS Date** 1 December 2017

**NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA**

## 2. HAZARDS IDENTIFICATION

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

**UN No.** None Allocated **Subsidiary Risk(s)** None Allocated **Pkg Group** None Allocated

**DG Class** None Allocated **Hazchem Code** None Allocated **EPG** None Allocated

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
POLYGLYCOL ETHER DERIVATIVE	Not Available	Not Available	>60%
ADDITIVES	Not Available	Not Available	<1%
CORROSION INHIBITOR(S)	Not Available	Not Available	<1%

## 4. FIRST AID MEASURES

**Eye** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the PIC or a doctor, or for at least 15 minutes.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the PIC or a doctor.

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Ingestion** For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

**Advice to Doctor** Treat symptomatically

## 5. FIRE FIGHTING MEASURES

**Flammability** Combustible. May evolve toxic gasses (carbon oxides, hydrocarbons) when heated to decomposition

**Fire and Explosion** Combustible. Evacuate area and contact emergency services. Toxic gases (hydrocarbons, carbon oxides) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**Extinguishing** Dry agent, carbon dioxide or water fog. Prevent contamination of drains or waterways.

**Hazchem Code** None allocated



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### 6. ACCIDENTAL RELEASE MEASURES

**Spillage** If spilt (bulk), absorb with sand or similar. Wear splash-proof goggles, PVC/rubber gloves, coveralls and boots. Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. Collect and place in sealable containers for disposal. Caution, spill site may be slippery.

### 7. STORAGE AND HANDLING

#### Handling

Store in cool, well ventilated area, removed from oxidising agents (eg. hypochlorites), acids (eg. sulphuric acid), heat and ignition sources, and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Store as a Class C1 Combustible Liquid (AS1940).

#### Storage

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Stds** No exposure standard(s) allocated.

**Biological Limits** No biological limit allocated.

**Engineering Controls** Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended.

**PPE** Wear splash-proof goggles, rubber or PVC gloves and safety glasses. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** VISCOUS CLEAR LIQUID

**Odour** MILD ODOUR

**pH** 7.5 %

**Vapour Pressure** NOT AVAILABLE

**Vapour Density** NOT AVAILABLE

**Boiling Point** 283°C to 286°C

**Melting Point** NOT AVAILABLE

**Evaporation Rate** NOT AVAILABLE

**Viscosity** 5 cp @ 20°C

**Solubility (water)** SOLUBLE

**Specific Gravity** 1.08

**Volatiles** NOT AVAILABLE

**Flammability** CLASS C1 COMBUSTIBLE

**Flash Point** 155°C to 156°C

**Upper Explosion Limit** NOT AVAILABLE

**Lower Explosion Limit** NOT AVAILABLE

**Autoignition Temperature** NOT AVAILABLE

### 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under recommended conditions of storage.

**Conditions to Avoid** Avoid heat, sparks, open flames and other ignition sources.

**Material to Avoid** Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulphuric acid), heat and ignition sources.

**Decomposition** May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

**Hazardous Reactions** Polymerization is not expected to occur.

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## 11. TOXICOLOGICAL INFORMATION

**Health Hazard Summary** Avoid direct eye or skin contact. Due to the low vapour pressure of this product, an inhalation hazard is not anticipated unless used in a confined space, heated or sprayed. Chronic over

exposure to some glycols is reported to cause kidney and liver damage, however given the low vapour pressure of this product, over exposure is not anticipated with normal use.

**Eye** Contact may result in irritation, lacrimation, pain and redness.

**Inhalation** Over exposure to mists or vapours (if sprayed) may result in mucous membrane irritation of the nose and throat with coughing. At high levels nausea, dizziness and headache. Low product vapour pressure (low volatility), considerably reduces the potential for an inhalation hazard.

**Skin** Prolonged or repeated contact may result in mild irritation, rash and dermatitis.

**Ingestion** Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.

**Toxicity Data** No LD50 data available for this product.

## 12. ECOLOGICAL INFORMATION

**Environment** ATMOSPHERE: Vapour phase glycols are expected to degrade fairly rapidly by reaction with hydroxyl radicals (eg half-life 32 hours for propylene glycol). Removal from air by rainfall is possible.

**WATER:** Should degrade relatively rapidly via biodegradation. **SOIL:** If released to soil, relatively rapid biodegradation should also occur. Leaching to groundwater may occur.

**Persistence /**

**Degradability** Limited information was available at the time of this review.

**Mobility** Limited information was available at the time of this review.

**Ecotoxicity** Not classified as dangerous to the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For larger amounts, contact the manufacturer for additional information. Prevent contamination of drains or waterways as aquatic life may be threatened and environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

**Shipping Name** None Allocated

**UN No.** None Allocated

**Pkg Group** None Allocated

**DG Class** None Allocated

**Hazchem Code** None Allocated

**Subsidiary Risk(s)** None Allocated

**EPG** None Allocated

## 15. REGULATORY INFORMATION

**Poison Schedule** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

**Additional Information**

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.



WORKPLACE CONTROLS AND PRACTICES: Unless a less toxic chemical can be substituted for a hazardous substance, ENGINEERING CONTROLS are the most effective way of reducing exposure. The

best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

ABBREVIATIONS:

ADB - Air-Dry Basis.

BEI - Biological Exposure Indices(s)

## 16. OTHER INFORMATION

### PRODUCT NAME PBFS-xx BRAKE FLUID SUPER DOT4 (AUSTRALIAN TRUCK AND AUTO PARTS) (PENDING APPROVAL)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EINECS - European Inventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m<sup>3</sup> - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Report Status** This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS'). It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

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**End of Report**

**MSDS Date:** 1 December 2017