



Material Safety Data Sheet

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Supplier Name AUSTRALIAN AUTOMOTIVE DISTRIBUTION

PBF3D-xx BRAKE FLUID DOT3

PRODUCT NAME

BRAKE FLUID

Synonym(s)

Date 2 February 2018

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

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

COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
POLYGLYCOL ETHER DERIVATIVE	Not Available	Not Available	>60%
CORROSION INHIBITOR(S)	Not Available	Not Available	1-9%
ANTIOXIDANT	Not Available	82980-54-9	<1%

FIRST AID MEASURES

Eyes 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.

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

FIRE FIGHTING MEASURES

Flammability Combustible. May evolve toxic gases (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

RMT

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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 AMBER COLOURED LIQUID

Odour MILD ODOUR

pH 7.5 to 8.5 %

Vapour Pressure NOT AVAILABLE

Vapour Density NOT AVAILABLE

Boiling Point 260°C

Melting Point NOT AVAILABLE

Evaporation Rate NOT AVAILABLE

Density 1.06 g/cm³

Viscosity 5 cP @ 20°C

Solubility (water) SOLUBLE

Specific Gravity NOT AVAILABLE

Volatiles 80 %

Flammability CLASS C1 COMBUSTIBLE

Flash Point 137°C

Upper Explosion Limit NOT AVAILABLE

Lower Explosion Limit NOT AVAILABLE

Autoignition Temperature NOT AVAILABLE

Freezing Point -40°C

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 May be toxic to fish and aquatic microorganisms.

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

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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/m³ - 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.

End of Report