

# Material Safety Data Sheet

## 1 . Identification of the material and supplier

**Product name** Brake Fluid DOT 4

**Other Names**

**Product use** Hydraulic Brake and Clutch Fluid

**Supplier** ENQUIRE AT TRITECH

**Telephone** (03) 1300 46 33 33

**EMERGENCY TELEPHONE NUMBER** (03) 9799 0977

## 2 . Hazards identification

### Statement of hazardous/dangerous nature

Not classified as hazardous according to criteria of NOHSC

While this material is not considered to be hazardous, it should be handled in accordance with good industrial hygiene and safety practices. Irritating to eyes.

## 3 . Composition/information on ingredients

Ingredients	CAS Number	Proportion in %
Butyl tri glycol	143-22-6	20-45
Di ethylene glycol	111-46-6	<25
Methyl diglycol	111-77-3	<5.
Other non-hazardous ingredients		25-50%

## 4 .First-aid measures

### Skin contact

Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

### Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms appear.

### Eye contact

In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.

### Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

## 5 . Fire-fighting measures

### Extinguishing Media Suitable

In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.

**Do not use water jet.**

#### **Protection of fire-fighters**

Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

#### **Special fire-fighting procedures**

None identified

#### **Unusual fire/explosion Hazards**

This material is not explosive as defined by established regulatory criteria.

#### **Hazards from combustion products**

Toxic fumes may be evolved upon combustion

## **6 . Accidental release measures**

### **Emergency Procedures**

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures")

### **Methods and materials for containment and clean-up**

#### **Minor Spill**

Contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid proof container for disposal.

#### **Major Spill**

Moderate hazard.

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- No smoking, naked lights or ignition sources.
- Increase ventilation.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise emergency services.

## **7 . Handling and storage**

### **Handling**

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

### **Storage**

Keep container tightly closed. Keep container in a cool, well-ventilated area. Store under cover away from heat and sources of ignition. Reference should be made to Australian Standard AS1940- The storage and handling of flammable and combustible liquids.

### **Additional information-Storage**

Classified as combustible liquid Class C1 (AS 1940).

Product contaminated rags paper or material used to absorb spillages represent a fire hazard and should not be allowed to accumulate. Dispose of safely immediately after use.

## **8 . Exposure controls/personal protection**

### **Ingredient name Occupational exposure limits**

Base oil - unspecified **NOHSC (Australia)**. TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Oil mist, mineral.

Whilst specific OELs for certain components are included in this data sheet, it should be noted that other components of the

preparation will be present in any mist, vapour or dust produced. For this reason, the specific OELs may not be applicable to the product and are provided for guidance purposes.

#### **Control Measures**

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

#### **Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

#### **Biological Limit Values**

No biological limit allocated.

#### **Personal protective equipment**

##### **Hands**

Wear protective gloves if prolonged or repeated contact is likely. Chemical resistant gloves. Recommended: Nitrile gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

##### **Eyes**

Safety glasses with side shields.

##### **Skin and Body**

Avoid prolonged or repeated contact with skin. Wear protective clothing if prolonged or repeated contact is likely.

##### **Respiratory system**

Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS 1715/1716. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist (Type P1) filters. Filter capacity and respirator type depends on exposure level

## **9 . Physical and chemical properties**

<b>Flash point</b>	> 80 °C
<b>Colour</b>	Amber/Pale straw
<b>Physical state</b>	Liquid
<b>Density</b>	1.010-1.070 kg/L
<b>Solubility</b>	Soluble in water
<b>pH</b>	7 to 11
<b>Vapour Pressure kPa @ 20 °C</b>	< 0.2
<b>Viscosity</b>	5-10 cst @ 20 °C

## **10 . Stability and reactivity**

#### **Hazardous polymerization**

Will not occur

#### **Stability**

This product is stable

#### **Conditions to Avoid**

Keep away from fire, extreme heat, and oxidising compounds

#### **Incompatibility with various substances/Hazardous Reactions**

Reactive with oxidizing compounds

#### **Hazardous Decomposition Products**

Carbon dioxide, carbon monoxide

## 11 . Toxicological information

### Effects and symptoms

#### Eyes

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

#### Skin

Prolonged or repeated contact can de-fat the skin and lead to irritation and/or dermatitis.

#### Inhalation

Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

#### Ingestion

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

### Carcinogenic effects

No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC), or the National Occupational Health and Safety Commission (Australia).

## 12 .Ecological information

### Ecotoxicity

Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying Hazardous Substances' [NOHSC (1008)/2004 as amended and adapted].

### Biodegradability

The biodegradability of this material has not been determined.

### Mobility

Spillages may penetrate the soil causing ground water contamination.

## 13 . Disposal considerations

### Disposal Consideration / Waste information

Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

### Special Precautions for Landfill or Incineration

No additional special precautions identified.

## 14 .Transport information

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

### Special precautions for user

See section 7 of this data sheet for additional handling information

## 15 . Regulatory information

### Standard for the Uniform Scheduling of Drugs and Poisons

Not regulated.

### Control of Scheduled Carcinogenic Substances

#### Ingredient name Schedule

No Listed Substance

### Inventories

### Other regulations

## 16 . Other information

Prepared by Peak Technical Advice

### Notice to reader

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Peak Lubricants.

### Key to abbreviations

AMP = Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists, an agency that promulgates exposure standards.

ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail

ADG Code = Australian Code for the Transport of Dangerous Goods by Road and Rail

CAS Number = Chemical Abstracts Service Registry Number

HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk.

ICAO = International Civil Aviation Organization.

IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.

IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.

IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.) DMSO is a solvent.

NOHSC = National Occupational Health & Safety Commission, Australia

TWA = Time weighted average

STEL = Short term exposure limit

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.