



## SAFETY DATA SHEET

### Technolube Dot 4 Brake Fluid

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** Technolube Dot 4 Brake Fluid  
**Product number** ADF010,ADF020,ADF455,ADF500  
**Internal identification** BF

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Car maintenance product.

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** A1 MOTOR STORES LIMITED  
Unit 20 Waterfield Way  
Sketchley Meadows Ind Est  
Hinckley  
Leicestershire  
LE10 3ER  
Tel: 01455 895904  
Fax: 01455 631646

**Manufacturer** TETROSYL LIMITED  
Bury  
Lancashire  
England  
BL9 7NY  
  
0161 764 5981  
0161 797 5899  
info@tetrosyl.com

##### 1.4. Emergency telephone number

**Emergency telephone** 0161 764 5981

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification

**Physical hazards** Not Classified  
**Health hazards** Eye Dam. 1 - H318  
**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Xi;R41.

**Human health** See Section 11 for additional information on health hazards.

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### 2.2. Label elements

#### Pictogram



#### Signal word

Danger

#### Hazard statements

H318 Causes serious eye damage.

#### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.

#### Contains

2-[2-(2-BUTOXYETHOXY)ETHOXY]ETHANOL

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>2-[2-(2-BUTOXYETHOXY)ETHOXY]ETHANOL</b>			<b>30-60%</b>
CAS number: 143-22-6	EC number: 205-592-6	REACH registration number: 01-2119531322-53	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>		
Eye Dam. 1 - H318	Xi;R41		
<b>DIETHYLENE GLYCOL</b>			<b>10-30%</b>
CAS number: 111-46-6	EC number: 203-872-2	REACH registration number: 01-2119457857-21	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>		
Acute Tox. 4 - H302	Xn;R22		
<b>1,1'-IMINODIPROPAN -2-OL</b>			<b>5-10%</b>
CAS number: 110-97-4	EC number: 203-820-9		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>		
Eye Irrit. 2 - H319	Xi;R36		
<b>2-(2-BUTOXYETHOXY)ETHANOL</b>			<b>5-10%</b>
CAS number: 112-34-5	EC number: 203-961-6	REACH registration number: 01-2119475104-44	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>		
Eye Irrit. 2 - H319	Xi;R36		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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**Composition comments** The data shown are in accordance with the latest EC Directives.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Get medical attention if any discomfort continues.
<b>Ingestion</b>	Consult a physician for specific advice.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Do not rub eye.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Effects may be delayed. Keep affected person under observation.
<b>Inhalation</b>	Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression. Irritation of nose, throat and airway.
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain or vomiting. Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication. Burning sensation in mouth. May cause unconsciousness, blindness and possibly death.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation. Mild dermatitis, allergic skin rash.
<b>Eye contact</b>	Irritation of eyes and mucous membranes. Irritation, burning, lachrymation, blurred vision after liquid splash.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Not relevant. No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
<b>Special protective equipment for firefighters</b>	Leave danger zone immediately.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

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**Personal precautions** For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces. Follow precautions for safe handling described in this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Collect and dispose of spillage as indicated in Section 13.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** For waste disposal, see Section 13. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with non-combustible, absorbent material. Contact Health and Safety department on 6695 for further assistance.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Avoid spilling. Avoid contact with skin and eyes. Remove contamination with soap and water or recognised skin cleansing agent. Do not use organic solvents. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from food, drink and animal feeding stuffs. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

No exposure limits known for ingredient(s).

#### **DIETHYLENE GLYCOL**

Long-term exposure limit (8-hour TWA): WEL 23 ppm 101 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

#### **2-(2-BUTOXYETHOXY)ETHANOL**

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

#### **Protective equipment**



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<b>Appropriate engineering controls</b>	Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles or face shield.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent reasonably probable skin contact.
<b>Hygiene measures</b>	Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash hands at the end of each work shift and before eating, smoking and using the toilet.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Colourless. to Amber.
<b>Odour</b>	No characteristic odour.
<b>Odour threshold</b>	Not determined. Not determined.
<b>pH</b>	pH (concentrated solution): 7.0 - 10.5
<b>Melting point</b>	<-50°C
<b>Initial boiling point and range</b>	>205°C @
<b>Flash point</b>	>90°C CC (Closed cup).
<b>Evaporation rate</b>	negligable
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	<2 mbar @ °C
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.01 - 1.07 @ 20°C
<b>Solubility(ies)</b>	Miscible with water. Miscible with the following materials: Ethanol.
<b>Partition coefficient</b>	: <2.0
<b>Auto-ignition temperature</b>	>300°C
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	5 - 10 cSt @ 20°C
<b>Oxidising properties</b>	Not available.

#### 9.2. Other information

<b>Other information</b>	None.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

**Stability** No particular stability concerns.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Will not polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with strong oxidising agents. Avoid heat, flames and other sources of ignition. Avoid contact with acids and alkalis.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 2,000.8

**Inhalation** Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.

**Ingestion** Harmful if swallowed.

**Skin contact** Repeated exposure may cause skin dryness or cracking.

**Eye contact** Irritation of eyes and mucous membranes.

**Acute and chronic health hazards** This chemical can be hazardous when inhaled and/or touched.

## SECTION 12: Ecological Information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >2200mg/l mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >500mg/l mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: 2490mg/l mg/l, Algae

### 12.2. Persistence and degradability

**Persistence and degradability** The product is biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product contains potentially bioaccumulating substances.

**Partition coefficient** : <2.0

### 12.4. Mobility in soil

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**Mobility** The product is soluble in water.

**Adsorption/desorption coefficient** Not available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

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**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>General information</b>	Only trained personnel should use this material.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	20/07/2015
<b>Revision</b>	0
<b>SDS number</b>	31377
<b>SDS status</b>	Approved.
<b>Risk phrases in full</b>	R22 Harmful if swallowed. R36 Irritating to eyes. R41 Risk of serious damage to eyes.
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation.

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.