

# SAFETY DATA SHEET

# 1. Product Identification

Champion Brands, LLC 1001 Golden Drive Clinton, MO 64735 (660) 885-8151

Product line: CHAMPION® DOT5.1 Brake Fluid

Products: 4056

CAS: Not applicable (Mixture)
Synonyms: Glycol-Based Brake Fluid

**Recommended use:** Disk and drum hydraulic brake fluid Do not use where DOT5 is specified

**Created:** 26 April 2012 **Revised:** 1 April 2019

Emergency phone: CHEMTREC: (+1) 800-424-9300

## 2. Hazards Identification

Appearance: Clear to amber Mild sweet odor

Classification(s): Reproductive toxicity – Category 2

Target organs: None known

Symbol(s):



Signal Word: Warning

**Hazard Statement(s):** Suspected of damaging fertility or the unborn child.

Other hazard(s): Combustible liquid. Repeated exposure may cause dryness

of the skin. Vapors may cause respiratory irritation.

**Precaution(s):** Wear eye and skin protection before handling. Do not

breathe mist/vapors/spray. Use in a well ventilated area. Wear protective gloves/protective clothing. IF IN EYES: Flush with water for 15 minutes and consult a physician. Do

Disposal:

no ingest. IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Keep out of waterways. Check local, national, and

international regulations for proper disposal

HMIS (estimated): Health – 1 Fire – 1 Instability – 0

## 3. Composition/Information on Ingredients

**Hazardous Ingredients:** 

Component	CAS No.	Conc (wt%)
Triethylene glycol monomethyl ether borate ester	30989-05-0	40 – 70
Triethylene glycol monomethyl ether	112-35-6	15 – 50
Tetraethylene glycol monomethyl ether	23783-42-8	< 5
Diethylene glycol monomethyl ether	111-77-3	< 1
Monoethanolamine	141-43-5	< 1
2,6-di-tert-butyl-p-cresol (BHT)	128-37-0	< 1

#### 4. First Aid Measures

**Eyes** Remove contact lenses, if worn. Rinse with running water for

at least 15 minutes, lifting upper and lower eyelids

occasionally. Seek medical attention.

**Skin** Remove affected clothing and launder before reuse. Wash

affected area for at least 15 minutes with soap and running water. Prolonged or repeated exposure may cause defatting of the skin – symptoms include redness, dryness, cracking

**Inhalation** Remove exposed person to fresh air immediately. Restore or

assist breathing, if necessary. Get medical attention

immediately if symptoms of CNS depression or intoxication

develop

**Ingestion** Do NOT induce vomiting. If conscious, give two full glasses

of water. If a significant volume has been swallowed, get

medical attention immediately.

Additional Info Not determined

**Specific Treatments** Not determined. Treat symptomatically

<sup>\*</sup>Classified based on human experience and epistemological data, not based on strict application of the GHS criteria

#### 5. Fire Fighting Measures

NFPA (estimated): Health – 1 Fire – 1 Instability – 0

Flash Point Not determined

**Extinguishing Media** For small fires use alcohol foam, dry chemical or CO<sub>2</sub>. For

large fires apply large (flooding) quantities of water from as

far away as possible in a spray or mist.

**Unsuitable Media** Water jet may be ineffective

Firefighting Procedures: Wear a self-container breathing apparatus if necessary

based on concentrations of smoke. Material will produce

primarily oxides of carbon as combustion products.

Unusual Hazards Not Determined

#### 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Ventilate if released in a confined area. Avoid breathing mists/vapors/spray. Product may present slipping hazard if left on the floor. Beware of vapors pooling in low areas to

explosive concentrations.

**Environmental precautions:** Avoid release to the environment. Prevent from

entering into soil, ditches, sewers, waterways or groundwater

Methods for removal: Use an pump to remove bulk liquid. Residual liquid can be

absorbed on inert material. Wash the area with water after excess product and adsorbent is removed. Dispose of all cleanup materials in accordance with local, state and federal

regulations

### 7. Handling and Storage

Max. Handling Temp: Not determined

**Procedures:** Use in a well ventilated area. Avoid breathing

mists/vapors/spray. Avoid handling hot product where possible. Use appropriate personal protective equipment to

avoid contact with skin and eyes. Note the location of

nearest emergency shower and eye wash station before use.

Store with the lid tightly closed in a cool, dry, well-ventilated place. Product is hygroscopic and effectiveness may diminish if opened product is stored for long periods of time. Dispose of spilled or used material in accordance with local, regional, national, and international regulations.

**Max Store Temp:** Do not store or handle at elevated temperatures.

### 8. Exposure Controls/Personal Protection

#### **Exposure Limits**

#### US

#### **Guidelines by component**

Triethylene glycol monomethyl ether borate ester

ACGIH TWA: 2 mg/m3 ACGIH TWA: 6 mg/m3

Monoethanolamine

ACGIH TWA 3 ppm ACGIH STEL 6 ppm

OSHA PEL 6 mg/m3; 3 ppm

Other Exposure Limits: Not determined

**Engineering Controls:** Use in a well ventilated area. Where exposure potential

exceeds recommended limits, use a NIOSH/OSHA approved

supplied air respirator as recommended.

**Personal Protective Equipment** 

**Respiratory:** Use a NIOSH or CEN approved full-face respirator with multi-

purpose combination or type ABEK respirator cartridges as a backup to engineering controls. If the respiratory is the only means of protection, use a full-face supplied air respirator

**Eye:** Use tightly-fitting chemical splash goggles. Use face shield,

especially where splashing is likely to occur

**Gloves:** Use nitrile, butyl, viton, or fluoroelastemer gloves. Even

appropriate materials may degrade after prolonged exposure

with product.

**Clothing:** Use chemical resistant pants and jackets, preferably of butyl

or nitrile rubber

Other: Locate the nearest eyewash station and safety shower before

handling this product. Limit exposure whenever possible.

**Hygiene:** Wash thoroughly after handling this product.

#### 9. Physical and Chemical Properties

Appearance Clear, pale yellow liquid

Odor Mild, sweet odor Odor threshold Not determined

**pH** 7 - 9

Melting Point < -50°C / -58°F
Initial Boiling Pt > 265°C / 509°F
Flash Point 115°C / 239°F
Evaporation Rate Not determined
Upper Flammable Lm Not determined
Lower Flammable Lm Not determined
Explosive Data Not determined

**Vapor Pressure** 0.09 hPa (0.07 mmHg) @ 20° (68°F)

Vapor Density > 5 (Air = 1)
Volatile Organics Not determined

**Density** 1.067 mg/cu. cm @20.0°C

**Solubility** Miscible in water, alcohol; sparingly soluble in some organic

solvents

KowNot determinedViscosity1.8 mm/s² @ 100°CAutoignition PointNot deeterminedDecomposition TempNot determined

### 10. Stability and Reactivity

**Stability** Material is normally stable at ambient temperatures and

pressures.

**Decomposition Temp** Not determined

**Incompatibility** Keep away from strong oxidizers and strong acids/bases.

Keep away from strong reducing agents such as powdered

active metals

Polymerization Will not occur

**Thermal Decomposition** Primarily oxidizes to carbon dioxide in normal combustion

conditions. In lower oxygen environments carbon monoxide,

formaldehyde, or formic acid may be formed.

Conditions to Avoid Keep away from strong oxidizers, acids, bases as well as

heat/sparks/open flames/hot surfaces

## 11. Toxicological Information

- Acute Exposure -

**Eye Irritation** Expected to cause mild to moderate irritation of the eye if

exposed to liquid or in high vapor concentrations. May cause

irritation, tearing, or burning of the eyes.

**Skin Irritation** Prolonged contact may cause skin irritation with local

redness.

Respiratory Irritation High vapor concentrations may cause transient irritation to

the respiratory system.

**Dermal Toxicity** This product can be absorbed through the skin, but is of low

order of toxicity. Limit exposure to skin where possible.

**Inhalation Toxicity** Toxicity is similar to that for oral ingestion, though this

exposure mode is far less likely to occur.

Oral Toxicity Not expected to cause injury under normal exposure

conditions. If a large amount of material is swallowed, injury

may occur. Single dose oral LD50 not determined

**Aspiration Hazard** This product has a low viscosity and may be fatal if aspirated

into the airways. Do NOT induce vomiting, as this increases

risk of aspiration.

- Chronic Exposure -

**Chronic Toxicity** This product may cause dryness or defatting of the skin,

dermatitis, or may aggravate existing skin conditions.

**Carcinogenicity** This product and its components are NOT listed by the IARC,

NTP, ACGIH, or OSHA as carcinogens

**Mutagenicity** Contains a component(s) which were negative for in vitro

genetic toxicity studies. Contains a component(s) which were

negative in animal genetic toxicity studies

Reproductive Toxicity Minor component(s) were found to cause decreased weight

and survival rate of offspring for excessive doses toxic to

parent animals.

**Teratogenicity** Diethylene glycol has produced birth defects in rats at

concentrations that are toxic to the mother. In animals, diethylene glycol methyl ether is slightly toxic to the fetus at doses nontoxic to the mother following skin contact; birth defects have been seen only following high oral doses which

have little relevance to human exposure

- Additional Information -

Target organ toxicity Synergistic effects

None known None known

Pharmacokinetics No data available

## 12. Ecological Information

## - Environmental Toxicity -

Freshwater Fish Not determined
Freshwater Invertebrates Not determined
Algae Not determined
Saltwater Fish Not determined
Saltwater Invertebrates Not determined
Bacteria Not determined
Miscellaneous Not determined

#### - Environmental Fate -

**Biodegradation** No data available. Expected to biodegrade rapidly and

degrade by photo-oxidative reactions with the air

**Bioaccumulation** Product is very mobile in soil and water and is somewhat

volatile – it is not expected to bioaccumulate.

**Soil Mobility** Product has high mobility in soil, slowly evaporates at

environmentally relevant temperatures

Other Effects Not determined

## 13. Disposal Considerations

#### **Disposal Considerations**

All disposal practices must be in accordance with local, regional, national, and international regulations. Store material for disposal as indicated in Section 7. Disposal by controlled incineration or by secure land fill may be acceptable – review applicable regulations or regulatory bodies before making disposal decisions.

### **Contaminated Containers or Packaging**

Do NOT weld, cut, or grind empty containers. Rinse empty containers with water and dispose of in accordance with local, regional, national, and international regulations

## 14. Transportation Information

Description shown may not apply to all shipping situations. Consult applicable shipping codes to determine any additional shipping requirements

**US DOT** Not dangerous goods

**IMDG** Not dangerous goods

ICAO/IATA Not dangerous goods

# 15. Regulatory Information

Global Chemical Inventories/Regulations –

**USA** All components of this material are on the US TSCA

Other TSCA Reg. None known

**EU** Components of this product and similar mixtures are

registered under REACH. Consult the European Chemicals Agency regarding REACH registration, reporting, and other legal requirements for methanol solutions before importing to

the EU.

**New Zealand** May require notification before sale under New Zealand

Regulations

**Canada** All components of this product are listed on the Canadian

Domestic Substances List (DSL).

Canada WHMIS B3

- Other U.S. Federal Regulations -

SARA Ext. Haz. Subst. No components listed as Extremely Hazardous Substances

list.

SARA Sect. 313 Ethylene glycol monomethyl ether (CAS # 109-86-4) and

triethylene glycol monomethyl ether (CAS # 112-35-6) are subject to reporting under SARA Title III, Section 313. See

40 CFR 372

SARA 311/312 Class Acute Hazard - NO

Chronic Hazard - NO
Fire Hazard - NO
Reactivity Hazard - NO

**CERCLA Haz. Sub.** No components listed. See 40 CFR 302

- State Regulations -

**CA Prop 65** WARNING: This product contains ethylene glycol

monomethyl ether, which is known to the State of California

to cause birth defects or other reproductive harm.

Right to Know Component

Triethylene glycol monomethyl ether
(CAS # 112-35-6)

Monoethanolamine
(CAS # 141-43-5)

Right to Know States

NJ, PA

#### - Other -

# 16. Other Information

Revision updates may be in many sections and the MSDS should be read in its entirety. Prepared according to the UN Globally Harmonized System for the Classification and Labeling of Chemicals (GHS) by Champion LLC, 1001 Golden Drive, Clinton, Missouri 64735.

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