

# SAFETY DATA SHEET

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Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

**Product Name** B1400/ B1401/ B1402/ B1405/ B14055

**Description** DOT 3 Brake Fluid

### Other means of identification

**Synonyms** Automotive brake fluid

### Recommended use of the chemical and restrictions on use

**Recommended Use** Automotive brake fluid

**Uses advised against** No information available

### Supplier's details

#### **Supplier Address**

**Manufacturer Name** The Berkebile Oil Company  
**Address** 1216 Red Brant Road  
Somerset, PA 15501  
**Phone** 814-443-1656  
**Email** info@berkebileoil.com  
**Fax** 814-443-2873

### Emergency telephone number

**Chemtrec Emergency Telephone number** 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

|                                   |            |
|-----------------------------------|------------|
| Acute Oral Toxicity               | Category 4 |
| Serious Eye Damage/Eye Irritation | Category 1 |

### GHS Label elements, including precautionary statements

#### **Emergency Overview**

**Signal Word** Danger  
**Hazard Statements**  
• Harmful if swallowed  
• Causes serious eye damage

**Appearance** Amber**Physical State** Liquid.**Odor** Etheric**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear eye/face protection

**General Advice**

- None

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician.

**Ingestion**

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth

**Storage**

- None

**Disposal**

- Dispose of contents/container to an approved waste disposal plant

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms**

Automotive brake fluid

| Chemical Name                       | CAS-No    | Weight % | Trade secret |
|-------------------------------------|-----------|----------|--------------|
| Triethylene glycol, monobutyl ether | 143-22-6  | 15-30    | *            |
| Diethylene glycol                   | 111-46-6  | 15-25    | *            |
| Diethylene glycol monobutyl ether   | 112-34-5  | 10-20    | *            |
| Ethanol, 2-(2-propoxyethoxy)-       | 6881-94-3 | 5-10     | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures****Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or Poison Control Center immediately.

|                     |                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin Contact</b> | Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.                                                                      |
| <b>Inhalation</b>   | Get medical attention immediately if symptoms occur.                                                                                                                          |
| <b>Ingestion</b>    | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a POISON CENTER or doctor/physician if exposed or you feel unwell. |

**Most important symptoms/effects, acute and delayed****Most Important Symptoms/Effects** Burning. Red eyes Tearing**Indication of immediate medical attention and special treatment needed, if necessary****Notes to Physician** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None**Specific Hazards Arising from the Chemical**

None known

**Explosion Data****Sensitivity to Mechanical Impact**

None.

**Sensitivity to Static Discharge**

None

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions** Use personal protective equipment. Do not get in eyes**Environmental Precautions****Environmental Precautions** See Section 12 for additional Ecological Information**Methods and materials for containment and cleaning up****Methods for Containment** Prevent further leakage or spillage if safe to do so.**Methods for Cleaning Up** Dam up. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Use personal protective equipment. Clean contaminated surface thoroughly.**7. HANDLING AND STORAGE****Precautions for safe handling****Handling** Wear personal protective equipment. Do not get in eyes

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering Measures** Showers. Eyewash stations.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Tightly fitting safety goggles.

**Skin and Body Protection** Protective gloves.

**Respiratory Protection** No special protective equipment required.

**Hygiene Measures** Provide regular cleaning of equipment, work area and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                       |         |                       |                          |
|-----------------------|---------|-----------------------|--------------------------|
| <b>Physical State</b> | Liquid  | <b>Appearance</b>     | Amber                    |
| <b>Odor</b>           | Etheric | <b>Odor Threshold</b> | No information available |

| <b>Property</b>                               | <b>Values</b>       | <b>Remarks/ - Method</b> |
|-----------------------------------------------|---------------------|--------------------------|
| <b>pH</b>                                     | 10.5                | None known               |
| <b>Melting Point/Range</b>                    | Not determined      | None known               |
| <b>Boiling Point/Boiling Range</b>            | 205 °C              | None known               |
| <b>Flash Point</b>                            | 203 °C              | None known               |
| <b>Evaporation rate</b>                       | No data available   | None known               |
| <b>Flammability (solid, gas)</b>              | No data available   | None known               |
| <b>Flammability Limits in Air</b>             |                     |                          |
| upper flammability limit                      | No data available   |                          |
| lower flammability limit                      | No data available   |                          |
| <b>Vapor Pressure</b>                         | No data available   | None known               |
| <b>Vapor Density</b>                          | No data available   | None known               |
| <b>Relative Density</b>                       | No data available   | None known               |
| <b>Specific Gravity</b>                       | 1.06                | None known               |
| <b>Water Solubility</b>                       | Completely soluble  | None known               |
| <b>Solubility in other solvents</b>           | Completely soluble. | None known               |
| <b>Partition coefficient: n-octanol/water</b> | No data available   | None known               |
| <b>Autoignition Temperature</b>               | No data available   | None known               |
| <b>Decomposition Temperature</b>              | No data available   | None known               |
| <b>Viscosity</b>                              | <1500 CST           | None known               |

**Flammable Properties** Not flammable

**Explosive Properties** No data available

**Oxidizing Properties** No data available

**Other information**

**VOC Content (%)** None

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization does not occur.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

|              |                                                                                 |
|--------------|---------------------------------------------------------------------------------|
| Inhalation   | May cause irritation of respiratory tract.                                      |
| Eye Contact  | Causes serious eye damage.                                                      |
| Skin Contact | May cause irritation.                                                           |
| Ingestion    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

### Symptoms related to the physical, chemical and toxicological characteristics

|                 |                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------|
| <b>Symptoms</b> | Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes. |
|-----------------|--------------------------------------------------------------------------------------------------------------|

### Delayed and immediate effects and also chronic effects from short and long term exposure

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| <b>Sensitization</b>            | No information available.                      |
| <b>Mutagenic Effects</b>        | No information available.                      |
| <b>Carcinogenicity</b>          | Contains no ingredient listed as a carcinogen. |
| <b>Reproductive Toxicity</b>    | No information available.                      |
| <b>STOT - single exposure</b>   | No information available.                      |
| <b>STOT - repeated exposure</b> | No information available.                      |
| <b>Aspiration Hazard</b>        | No information available.                      |

### Numerical measures of toxicity • -Product

*The following values are calculated based on chapter 3.1 of the GHS document:*

|                    |                                     |
|--------------------|-------------------------------------|
| <b>LD50 Oral</b>   | 1667 mg/kg; Acute toxicity estimate |
| <b>LD50 Dermal</b> | 4606 mg/kg; Acute toxicity estimate |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name                       | Toxicity to Algae                                        | Toxicity to Fish                                                                                                                                                                     | Toxicity to Microorganisms | Daphnia Magna (Water Flea)                                                      |
|-------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------|
| Triethylene glycol, monobutyl ether | EC50 72 h: > 500 mg/L<br>(Desmodesmus subspicatus)       | LC50 96 h: 2200-4600 mg/L static (Leuciscus idus)<br>LC50 96 h: = 2400 mg/L (Pimephales promelas)<br>LC50 96 h: = 2400 mg/L static (Pimephales promelas)                             |                            | EC50 48 h: > 500 mg/L (Daphnia magna)                                           |
| Diethylene glycol                   |                                                          | LC50 96 h: = 75200 mg/L flow-through (Pimephales promelas)                                                                                                                           | EC50 = 29228 mg/L 15 min   | EC50 48 h: = 84000 mg/L (Daphnia magna)                                         |
| Diethylene glycol monobutyl ether   | EC50 96 h: > 100 mg/L (Desmodesmus subspicatus)          | LC50 96 h: = 1300 mg/L static (Lepomis macrochirus)                                                                                                                                  |                            | EC50 24 h: = 2850 mg/L (Daphnia magna)<br>EC50 48 h: > 100 mg/L (Daphnia magna) |
| Tetraethylene glycol                | EC50 96 h: > 1000 mg/L (Pseudokirchneriella subcapitata) | LC50 96 h: > 1000 mg/L static (Oncorhynchus mykiss)                                                                                                                                  | EC50 > 100 mg/L 6 h        | EC50 48 h: > 1000 mg/L (Daphnia magna)                                          |
| Triethylene glycol                  |                                                          | LC50 96 h: 56200-63700 mg/L flow-through (Pimephales promelas)<br>LC50 96 h: = 10000 mg/L static (Lepomis macrochirus)<br>LC50 96 h: = 61000 mg/L flow-through (Lepomis macrochirus) | EC50 = 850 mg/L 5 min      | EC50 48 h: = 42426 mg/L (Daphnia magna)                                         |

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

| Chemical Name                       | Log Pow |
|-------------------------------------|---------|
| Triethylene glycol, monobutyl ether | 0.51    |
| Diethylene glycol                   | -1.98   |

### Other Adverse Effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

### Contaminated Packaging

Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated.

**ICAO** Not regulated

|                 |               |
|-----------------|---------------|
| <b>IATA</b>     | Not regulated |
| <b>IMDG/IMO</b> | Not regulated |
| <b>RID</b>      | Not regulated |
| <b>ADR</b>      | Not regulated |

## 15. REGULATORY INFORMATION

### International Inventories

|             |          |
|-------------|----------|
| <b>TSCA</b> | Complies |
| <b>DSL</b>  | Complies |

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name                       | CAS-No    | Weight % | SARA 313 - Threshold Values % |
|-------------------------------------|-----------|----------|-------------------------------|
| Triethylene glycol, monobutyl ether | 143-22-6  | 15-30    | 1.0                           |
| Diethylene glycol monobutyl ether   | 112-34-5  | 10-20    | 1.0                           |
| Ethanol, 2-(2-propoxyethoxy)-       | 6881-94-3 | 5-10     | 1.0                           |

### SARA 311/312 Hazard Categories

|                                          |     |
|------------------------------------------|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

| Chemical Name                       | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|-------------------------------------|------------|---------------|--------------|----------|--------------|
| Triethylene glycol, monobutyl ether |            |               | X            | X        |              |
| Diethylene glycol                   |            |               | X            |          | X            |
| Diethylene glycol monobutyl ether   |            |               | X            | X        |              |

### U.S. EPA Label Information

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EPA Pesticide Registration Number Not applicable

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**16. OTHER INFORMATION**

|             |                        |                       |                          |                                        |
|-------------|------------------------|-----------------------|--------------------------|----------------------------------------|
| <b>NFPA</b> | <b>Health Hazard</b> 0 | <b>Flammability</b> 0 | <b>Instability</b> 0     | <b>Physical and Chemical Hazards</b> - |
| <b>HMIS</b> | <b>Health Hazard</b> 0 | <b>Flammability</b> 0 | <b>Physical Hazard</b> 0 | <b>Personal Protection</b> X           |

|                      |                  |
|----------------------|------------------|
| <b>Prepared By</b>   | Zach Sherbine    |
|                      | 1-800-572-6501   |
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| <b>Revision Date</b> | 5/15/15          |
| <b>Revision Note</b> | Initial Release. |

**General Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**