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

## 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>PEAK DOT 3 Brake Fluid</td>
</tr>
</tbody>
</table>

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

| Use of the substance/mixture | Automotive brake fluid |

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

Old World Industries, LLC  
4065 Commercial Ave.  
Northbrook, IL 60062 - USA  
T (847) 559-2000  
www.oldworldind.com

## 1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Emergency number</th>
<th>(800) 424-9300; (703) 527 3887 (International)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chemtrec</td>
</tr>
</tbody>
</table>

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

**GHS-US classification**

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>H302</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>H318</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>H373</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

## 2.2. Label elements

**GHS-US labelling**

| Hazard pictograms (GHS-US) | ![GHS05](image) ![GHS07](image) ![GHS08](image) |

<table>
<thead>
<tr>
<th>Signal word (GHS-US)</th>
<th>Danger</th>
</tr>
</thead>
</table>
| Hazard statements (GHS-US) | H302 - Harmful if swallowed  
H318 - Causes serious eye damage  
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral) |

| Precautionary statements (GHS-US) | P264 - Wash affected areas thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear personal protective equipment as required  
P301+P310 - If swallowed: Immediately call doctor/physician or poison center. Rinse Mouth  
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 - If inhaled: Take off immediately to a fresh air  
P314 - Get medical advice/attention if you feel unwell  
P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations |

## 2.3. Other hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

No data available

# SECTION 3: Composition/information on ingredients

## 3.1. Substance

Not applicable
3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% by wt</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene glycol, monobutyl ether</td>
<td>(CAS No) 143-22-6</td>
<td>15 - 30</td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td>diethylene glycol</td>
<td>(CAS No) 111-46-6</td>
<td>15 - 25</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td>(CAS No) 112-34-5</td>
<td>10 - 20</td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>2-(2-propoxyethoxy)ethanol</td>
<td>(CAS No) 6881-94-3</td>
<td>5 - 10</td>
<td>Flam. Liq. 4, H227</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation: If you feel unwell, seek medical advice.
First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact: Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical advice/attention if you feel unwell.

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

Symptoms/injuries after inhalation : None under normal use.
Symptoms/injuries after skin contact : If skin irritation or rash occurs: Get medical advice/attention.
Symptoms/injuries after eye contact : Causes eye irritation. Causes eyes to water.
Symptoms/injuries after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Under fire conditions, hazardous fumes will be present.
Explosion hazard : Not applicable.
Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
Special protective equipment for fire fighters : Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves). Wear positive pressure air supplied respirator if required by safe entry procedures.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin, eyes and clothing.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Stop leak if safe to do so.
6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
For containment : Contain released substance, pump into suitable containers. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Methods for cleaning up : Collect spillage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Notify authorities if product enters sewers or public waters.

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions : Do not store near food, foodstuffs, drugs or potable water supplies. Keep container closed when not in use. Store in a dry place. Store in a well-ventilated place. Store in original container.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters

<table>
<thead>
<tr>
<th>Diethylene glycol monobutyl ether (112-34-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (ppm)</td>
</tr>
<tr>
<td>ACGIH</td>
<td>ACGIH STEL (ppm)</td>
</tr>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Wear suitable gloves resistant to chemical penetration.
Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : If exposed to levels above exposure limits wear appropriate respiratory protection.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties
Physical state : Liquid
Color : amber
Odor : ether-like odor
Odor threshold : No data available
pH : 10.5
Relative evaporation rate (butylacetate=1) : No data available
Freezing point : No data available
Boiling point : 205 °C (401 °F)
Flash point : 203 °C (397 °F) [Method used: Cleveland Open Cup]
Auto-ignition temperature : > 220 °C (>428 °F)
# PEAK DOT 3 Brake Fluid

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.06</td>
</tr>
<tr>
<td>Density</td>
<td>1.06 kg/l (8.84 lbs/gal)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: Complete</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>&lt; 1500 cSt</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4. Conditions to avoid

Not established.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Route</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol (111-46-6)</td>
<td>Oral</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>11,890.00 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>500.00 mg/kg bodyweight</td>
<td></td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>11,890.00 mg/kg bodyweight</td>
<td></td>
</tr>
<tr>
<td>Triethylene glycol, monobutyl ether (143-22-6)</td>
<td>LD50 oral rat</td>
<td>5,170.00 mg/kg bodyweight (Rat; according to BASF-internal standards; Experimental value)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>3,540.00 mg/kg bodyweight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)</td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>5,170.00 mg/kg bodyweight</td>
<td></td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>3,540.00 mg/kg bodyweight</td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether (112-34-5)</td>
<td>LD50 dermal rabbit</td>
<td>2,764.00 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>2,764.00 mg/kg bodyweight</td>
<td></td>
</tr>
<tr>
<td>2-(2-propoxyethoxy)ethanol (6881-94-3)</td>
<td>LD50 oral rat</td>
<td>6,661.00 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>5,048.00 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>6,661.00 mg/kg bodyweight</td>
<td></td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>5,048.00 mg/kg bodyweight</td>
<td></td>
</tr>
</tbody>
</table>
## Skin corrosion/irritation
- Not classified
- **pH:** 10.50

## Serious eye damage/irritation
- Causes serious eye damage.
- **pH:** 10.50

## Respiratory or skin sensitisation
- Not classified

## Germ cell mutagenicity
- Not classified

## Carcinogenicity
- Not classified

## Reproductive toxicity
- Not classified

## Specific target organ toxicity (single exposure)
- Not classified

## Specific target organ toxicity (repeated exposure)
- May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

## Aspiration hazard
- Not classified

### Symptoms/injuries after inhalation
- None under normal use.

### Symptoms/injuries after skin contact
- If skin irritation or rash occurs: Get medical advice/attention.

### Symptoms/injuries after eye contact
- Causes eye irritation. Causes eyes to water.

### Symptoms/injuries after ingestion
- Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### diethylene glycol (111-46-6)
- **LC50 fish 1:** > 5,000.00 ppm (24 h; Carassius auratus)
- **LC50 other aquatic organisms 1:** 1,174.00 mg/l (Xenopus laevis)
- **EC50 Daphnia 1:** > 10,000.00 mg/l (24 h; Daphnia magna)
- **LC50 fish 2:** 61,072.00 ppm (168 h; Poecilia reticulata)
- **EC50 Daphnia 2:** > 10,000.00 mg/l (24 h; Daphnia magna)
- **TLM fish 1:** > 32000 mg/l (96 h; Gambusia affinis)
- **TLM other aquatic organisms 1:** > 1000 ppm (96 h)
- **Threshold limit other aquatic organisms 1:** 1174 mg/l (72 h; Xenopus laevis; Toxicity test)
- **Threshold limit other aquatic organisms 2:** 10745 mg/l (16 h; Protoza; Toxicity test)
- **Threshold limit algae 1:** 2700 mg/l (168 h; Scenedesmus quadricauda)
- **Threshold limit algae 2:** 100 mg/l (Selenastrum capricornutum)

#### Triethylene glycol, monobutyl ether (143-22-6)
- **LC50 fish 1:** 2200/2400,96 h; Leuciscus idus
- **EC50 Daphnia 1:** > 500.00 mg/l (48 h; Daphnia magna)
- **Threshold limit algae 1:** 62.5 mg/l (72 h; Desmodesmus subspicatus)

#### Diethylene glycol monobutyl ether (112-34-5)
- **LC50 fish 1:** 1,300.00 mg/l (96 h; Lepomis macrochirus)
- **EC50 Daphnia 1:** 4,950.00 mg/l (48 h; Daphnia magna)
- **Threshold limit algae 1:** > 100 mg/l (96 h; Desmodesmus subspicatus)

### 12.2. Persistence and degradability

#### diethylene glycol (111-46-6)
- **Persistence and degradability:** Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.
- **Biochemical oxygen demand (BOD):** 0.02 g O₂/g substance
- **Chemical oxygen demand (COD):** 1.51 g O₂/g substance
- **ThOD:** 1.51 g O₂/g substance
- **BOD (% of ThOD):** 0.02 % ThOD

---

06/18/2015 EN (English)
Triethylene glycol, monobutyl ether (143-22-6)
Persistence and degradability
Readily biodegradable in water. Low potential for adsorption in soil. Photooxidation in the air.

Diethylene glycol monobutyl ether (112-34-5)
Persistence and degradability
Readily biodegradable in water. Low potential for adsorption in soil. Photooxidation in the air.

2-(2-propoxyethoxy)ethanol (6881-94-3)
Persistence and degradability
Biodegradability in water: no data available.

12.3. Bioaccumulative potential

Diethylene glycol (111-46-6)
BCF fish 1
100.00 (3 h; Leuciscus melatonus)
Log Pow
-1.98 (Calculated; Other)
Bioaccumulative potential
Bioaccumulation: not applicable.

Triethylene glycol, monobutyl ether (143-22-6)
Log Pow
0.51 (20 °C)
Bioaccumulative potential
Low potential for bioaccumulation (Log Kow < 4).

Diethylene glycol monobutyl ether (112-34-5)
Log Pow
1.00 (Test data; Equivalent or similar to OECD 107; 20 °C)
Bioaccumulative potential
Low potential for bioaccumulation (Log Kow < 4).

2-(2-propoxyethoxy)ethanol (6881-94-3)
Bioaccumulative potential
No bioaccumulation data available.

12.4. Mobility in soil

Diethylene glycol (111-46-6)
Surface tension
0.05 N/m

Triethylene glycol, monobutyl ether (143-22-6)
Surface tension
0.06 N/m (°C)

Diethylene glycol monobutyl ether (112-34-5)
Surface tension
0.01 N/m (20 °C)

12.5. Other adverse effects

Effect on ozone layer
No known effect on the ozone layer

Effect on global warming
No known ecological damage caused by this product. No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations
Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with DOT
Not a dangerous good in sense of transport regulations

Other information
No supplementary information available.

ADR
No additional information available

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information
## 15.1. US Federal regulations

<table>
<thead>
<tr>
<th>PEAK DOT 3 Brake Fluid</th>
<th>Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA TSCA Regulatory Flag</td>
<td></td>
</tr>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
<td>Immediate (acute) health hazard</td>
</tr>
</tbody>
</table>

**diethylene glycol (111-46-6)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Triethylene glycol, monobutyl ether (143-22-6)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Diethylene glycol monobutyl ether (112-34-5)**
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

**2-(2-propoxyethoxy)ethanol (6881-94-3)**
- Subject to reporting requirements above threshold value of 1%

## 15.2. International regulations

**CANADA**

**WHMIS Classification**

**EU-Regulations**
- No additional information available

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**
- No additional information available

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**
- Not classified

**National regulations**
- No additional information available

## 15.3. US State regulations

**diethylene glycol (111-46-6)**
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

**Triethylene glycol, monobutyl ether (143-22-6)**
- U.S. - Pennsylvania - RTK (Right to Know) List

**Diethylene glycol monobutyl ether (112-34-5)**
- U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information
### Full text of H-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation, Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 4</td>
<td>Flammable liquids, Category 4</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
</tr>
<tr>
<td>H227</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

**NFPA health hazard**: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

**NFPA fire hazard**: 1 - Must be preheated before ignition can occur.

**NFPA reactivity**: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

---

**HMIS III Rating**

<table>
<thead>
<tr>
<th>Health</th>
<th>1 Slight Hazard - Irritation or minor reversible injury possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 ºF (93 ºC). (Class IIIb)</td>
</tr>
<tr>
<td>Physical</td>
<td>0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.</td>
</tr>
</tbody>
</table>

**SDS GHS US (GHS HazCom 2012) OWI**

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.