



PEAK DOT 3 Brake Fluid

Safety Data Sheet

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

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

1.1. Product identifier

Product form : Mixture
Product name : PEAK DOT 3 Brake Fluid

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

Emergency number : (800) 424-9300; (703) 527 3887 (International)
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Oral) H302
Eye Dam. 1 H318
STOT RE 2 H373

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

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 - Immediately call a doctor/physician or poison center
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

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3.2. Mixture

Name	Product identifier	% by wt	GHS-US classification
Triethylene glycol, monobutyl ether	(CAS No) 143-22-6	15 - 30	Eye Dam. 1, H318
diethylene glycol	(CAS No) 111-46-6	15 - 25	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Diethylene glycol monobutyl ether	(CAS No) 112-34-5	10 - 20	Eye Irrit. 2A, H319
2-(2-propoxyethoxy)ethanol	(CAS No) 6881-94-3	5 - 10	Flam. Liq. 4, H227

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.

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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

Diethylene glycol monobutyl ether (112-34-5)		
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (ppm)	10 ppm
OSHA	Not applicable	

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Personal protective equipment : Protective goggles. Protective clothing. Gloves.



- 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)

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Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Specific Gravity	: 1.06
Density	: 1.06 kg/l (8.84 lbs/gal)
Solubility	: Water: Complete
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: < 1500 cSt
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

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 : Oral: Harmful if swallowed.

diethylene glycol (111-46-6)	
LD50 dermal rabbit	11,890.00 mg/kg (Rabbit)
ATE US (oral)	500.00 mg/kg bodyweight
ATE US (dermal)	11,890.00 mg/kg bodyweight
Triethylene glycol, monobutyl ether (143-22-6)	
LD50 oral rat	5,170.00 mg/kg bodyweight (Rat; according to BASF-internal standards; Experimental value)
LD50 dermal rabbit	3,540.00 mg/kg bodyweight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
ATE US (oral)	5,170.00 mg/kg bodyweight
ATE US (dermal)	3,540.00 mg/kg bodyweight
Diethylene glycol monobutyl ether (112-34-5)	
LD50 dermal rabbit	2,764.00 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
ATE US (dermal)	2,764.00 mg/kg bodyweight
2-(2-propoxyethoxy)ethanol (6881-94-3)	
LD50 oral rat	6,661.00 mg/kg (Rat)
LD50 dermal rabbit	5,048.00 mg/kg (Rabbit)
ATE US (oral)	6,661.00 mg/kg bodyweight
ATE US (dermal)	5,048.00 mg/kg bodyweight

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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; Protozoa; 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 O ₂ /g substance
Chemical oxygen demand (COD)	1.51 g O ₂ /g substance
ThOD	1.51 g O ₂ /g substance
BOD (% of ThOD)	0.02 % ThOD

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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.
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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

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15.1. US Federal regulations

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EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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	
SARA Section 313 - Emission Reporting	Subject to reporting requirements above threshold value of 1%
Diethylene glycol monobutyl ether (112-34-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 313 - Emission Reporting	Subject to reporting requirements above threshold value of 1%
2-(2-propoxyethoxy)ethanol (6881-94-3)	
SARA Section 313 - Emission Reporting	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

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Full text of H-phrases:

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

NFPA health hazard

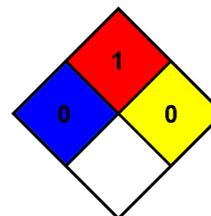
: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

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

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 °F (93 °C). (Class IIIB)

Physical

: 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.

SDS GHS US (GHS HazCom 2012) OWI

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