



# PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision date: 01/01/2020

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles

#### 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  
3100 Sanders Road  
Northbrook, IL 60062 - USA  
T (847) 559-2000  
[www.oldworldind.com](http://www.oldworldind.com)

#### 1.4. Emergency telephone number

Emergency number : 800 424 9300 (United States); 00 1 703 527 3887 (International)  
Chemtrec

### SECTION 2: Hazards identification

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

##### GHS-US classification

Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage.  
Reproductive toxicity, Category 2 H361 Suspected of damaging fertility or the unborn child.  
Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

GHS08

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : Causes serious eye damage.  
Suspected of damaging fertility or the unborn child.  
Precautionary statements (GHS-US) : Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves, protective clothing, eye protection, face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If exposed or concerned: Get medical advice/attention.  
Immediately call a doctor/physician or poison center  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No data available

# PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles

## Safety Data Sheet

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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	% by wt	GHS-US classification
tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	(CAS-No.) 30989-05-0	50 - 75	Not classified
butoxytriglycol	(CAS-No.) 143-22-6	3 - 5	Eye Dam. 1, H318
2-(2-methoxyethoxy)ethanol	(CAS-No.) 111-77-3	1 - 3	Flam. Liq. 4, H227
diisopropanolamine	(CAS-No.) 110-97-4	1 - 3	Eye Irrit. 2, H319

Full text of hazard classes and H-statements : see section 16

### 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 : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.
- 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/effects after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- Symptoms/effects after skin contact : If skin irritation or rash occurs: Get medical advice/attention.
- Symptoms/effects after eye contact : Causes eye irritation. Causes eyes to water.
- Symptoms/effects 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. Water spray. Dry powder. Foam.
- 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. Special protective equipment and precautions for fire-fighters

- 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. Use self-contained breathing apparatus and chemically protective clothing.

### 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).

# PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles

## Safety Data Sheet

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

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 product, 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.

Incompatible materials : Oxidizing agents. Moisture.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)</b>
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Not applicable
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<b>butoxytriglycol (143-22-6)</b>
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Not applicable
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<b>2-(2-methoxyethoxy)ethanol (111-77-3)</b>
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Not applicable
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<b>diisopropanolamine (110-97-4)</b>
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Not applicable
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### 8.2. Appropriate engineering controls

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

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Protective goggles. 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

# PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles

## Safety Data Sheet

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

### Respiratory protection:

If exposed to levels above exposure limits wear appropriate respiratory protection.



## 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	: 7 - 8.5
Relative evaporation rate (butylacetate=1)	: No data available
Freezing point	: No data available
Boiling point	: 265 °C (509 °F)
Flash point	: 135.5 °C (276 °F) [Method used: Pensky Martens Closed Cup]
Auto-ignition temperature	: > 200 °C (392 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 1 mbar @ 20 °c
Vapor pressure at 50 °C	: 1 mbar
Relative vapor density at 20 °C	: No data available
Specific Gravity	: 1.06
Solubility	: Water: Complete
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available.
Oxidizing properties	: No data available

### 9.2. Other information

Other properties : Solidification temperature: <-50 °C (-58 °F).

## 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

Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

Oxidizing agent. Moisture.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Fume.

# PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles

## Safety Data Sheet

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

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles	
LD50 oral rat	> 2000 mg/kg

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)	
LD50 oral rat	>= 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)

butoxytriglycol (143-22-6)	
LD50 oral rat	5170 mg/kg bodyweight (according to BASF-internal standards, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	3540 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
ATE US (oral)	5170 mg/kg bodyweight
ATE US (dermal)	3540 mg/kg bodyweight

2-(2-methoxyethoxy)ethanol (111-77-3)	
LD50 dermal rabbit	9404 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Skin, 14 day(s))
ATE US (dermal)	9404 mg/kg bodyweight

diisopropanolamine (110-97-4)	
LD50 oral rat	4765 mg/kg (Rat, Oral)
LD50 dermal rat	16000 mg/kg (Rat, Dermal)
LD50 dermal rabbit	8000 mg/kg (Rabbit, Dermal)
ATE US (oral)	4765 mg/kg bodyweight
ATE US (dermal)	8000 mg/kg bodyweight

Skin corrosion/irritation : Not classified  
pH: 7 - 8.5

Serious eye damage/irritation : Causes serious eye damage.  
pH: 7 - 8.5

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

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

Symptoms/effects after eye contact : Causes eye irritation. Causes eyes to water.

Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

### SECTION 12: Ecological information

#### 12.1. Toxicity

PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles	
LC50 fish 1	> 100.00 mg/l (96 hr) Leuciscus idus

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)	
LC50 fish 1	> 222.20 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)

# PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles

## Safety Data Sheet

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

<b>tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)</b>	
EC50 Daphnia 1	< 211.20 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	> 224.40 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

<b>butoxytriglycol (143-22-6)</b>	
LC50 fish 1	2200 - 2400 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	> 500.00 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)

<b>2-(2-methoxyethoxy)ethanol (111-77-3)</b>	
LC50 fish 1	5,741.00 mg/l (EPA method, Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	1,192.00 mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)

<b>diisopropanolamine (110-97-4)</b>	
LC50 fish 1	1000 - 2200 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio)
EC50 Daphnia 1	277.70 mg/l (48 h, Daphnia magna)

### 12.2. Persistence and degradability

<b>tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>butoxytriglycol (143-22-6)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>2-(2-methoxyethoxy)ethanol (111-77-3)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>diisopropanolamine (110-97-4)</b>	
Persistence and degradability	Inherently biodegradable.

### 12.3. Bioaccumulative potential

<b>tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)</b>	
Log Pow	-0.62 - -0.55 (Experimental value, Equivalent or similar to OECD 117)
Bioaccumulative potential	Not bioaccumulative.

<b>butoxytriglycol (143-22-6)</b>	
Log Pow	0.51 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>2-(2-methoxyethoxy)ethanol (111-77-3)</b>	
Log Pow	-0.47 (Experimental value, Equivalent or similar to OECD 117, 20 °C)
Bioaccumulative potential	Not bioaccumulative.

<b>diisopropanolamine (110-97-4)</b>	
Log Pow	-0.79
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil

<b>tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)</b>	
Log Koc	-2.10 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.

<b>butoxytriglycol (143-22-6)</b>	
Surface tension	61.20 mN/m (20 °C, 0.1 g/l)
Ecology - soil	Low potential for adsorption in soil.

<b>2-(2-methoxyethoxy)ethanol (111-77-3)</b>	
Surface tension	64.50 mN/m (25 °C, 1 g/l)
Ecology - soil	Low potential for adsorption in soil.

# PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles

## Safety Data Sheet

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

### 12.5. Other adverse effects

Effect on the ozone layer : No known effect on the ozone layer

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

### Transportation of Dangerous Goods

Refer to current TDG Canada for further Canadian regulations

### Transport by sea

In accordance with IMDG / IMO

Not regulated

### Air transport

In accordance with IATA / ICAO

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
SARA Section 311/312 Hazard Classes	Refer to Section 2 for the OSHA hazard classification
SARA Section 313 - Emission Reporting	111-77-3 [2-(methoxyethoxy)ethanol] 112-35-6 [2-(2-(2-methoxyethoxy)ethoxy)ethanol] 143-22-6 [2-(2-(2-butoxyethoxy)ethoxy)ethanol]

#### tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### butoxytriglycol (143-22-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 2-(2-methoxyethoxy)ethanol (111-77-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### diisopropanolamine (110-97-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

# PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles

## Safety Data Sheet

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

### CANADA

#### PEAK OET Brake Fluid DOT 3 & DOT 4 for European Vehicles

WHMIS Classification

This SDS has been prepared according to the criteria of the Hazardous Products Regulations (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR. Applicable GHS information is listed in section 2.2 of this SDS.

#### tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)

Listed on the Canadian DSL (Domestic Substances List)

#### butoxytriglycol (143-22-6)

Listed on the Canadian DSL (Domestic Substances List)

#### 2-(2-methoxyethoxy)ethanol (111-77-3)

Listed on the Canadian DSL (Domestic Substances List)

#### diisopropanolamine (110-97-4)

Listed on the Canadian DSL (Domestic Substances List)

### 15.3. US State regulations

**⚠ WARNING:** California Proposition 65 – Cancer and Reproductive Harm – [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

California Proposition 65 - This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the state of California to cause cancer, developmental toxicity and/or reproductive toxicity. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### 2-(2-methoxyethoxy)ethanol (111-77-3)

U.S. - Pennsylvania - RTK (Right to Know) List

#### diisopropanolamine (110-97-4)

U.S. - Pennsylvania - RTK (Right to Know) List

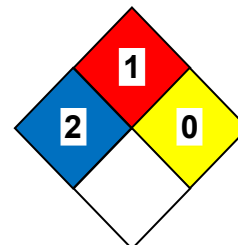
## SECTION 16: Other information

Revision date : 01/01/2020

Full text of H-statements:

H227	Combustible liquid
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.  
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.  
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



SDS GHS US (GHS HazCom 2012) OWI

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