



PEAK OET Brake Fluid DOT 3 & DOT 4 for Asian 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 Asian 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

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

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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).

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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

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

| |
|----------------|
| Not applicable |
|----------------|

| |
|-----------------------------------|
| butoxytriglycol (143-22-6) |
|-----------------------------------|

| |
|----------------|
| Not applicable |
|----------------|

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

| |
|----------------|
| Not applicable |
|----------------|

| |
|--------------------------------------|
| diisopropanolamine (110-97-4) |
|--------------------------------------|

| |
|----------------|
| Not applicable |
|----------------|

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

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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.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| PEAK OET Brake Fluid DOT 3 & DOT 4 for Asian 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 Asian Vehicles | |
|--|--|
| LC50 fish 1 | > 100.00 mg/l (96 hr) <i>Leuciscus idus</i> |
| 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, <i>Oncorhynchus mykiss</i> , Semi-static system, Fresh water, Experimental value, GLP) |

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

| butoxytriglycol (143-22-6) | |
|-----------------------------------|---|
| 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) |

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

| diisopropanolamine (110-97-4) | |
|--------------------------------------|---|
| 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

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

| butoxytriglycol (143-22-6) | |
|-----------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| 2-(2-methoxyethoxy)ethanol (111-77-3) | |
|--|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| diisopropanolamine (110-97-4) | |
|--------------------------------------|---------------------------|
| Persistence and degradability | Inherently biodegradable. |

12.3. Bioaccumulative potential

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

| butoxytriglycol (143-22-6) | |
|-----------------------------------|---|
| 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). |

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

| diisopropanolamine (110-97-4) | |
|--------------------------------------|----------------------|
| Log Pow | -0.79 |
| Bioaccumulative potential | Not bioaccumulative. |

12.4. Mobility in soil

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

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

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

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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 Asian 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

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CANADA

PEAK OET Brake Fluid DOT 3 & DOT 4 for Asian 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.

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.

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

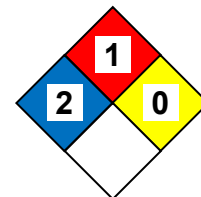
SECTION 16: Other information

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

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.