

# **FVP DOT 3 BRAKE FLUID**

1. Identification

**Product number** FVPBF3-12, FVPBF3-1GAL, FVPBF3-32

**DOT 3 BRAKE FLUID Product identifier** 

**Revision date** 09-13-2018

**Company information Factory Motor Parts** 

1380 Corporate Center Curve

Ste. 200

Eagan, MN 55121 United States

**Company phone Emergency** 

telephone US Emergency

(866) 387-3343 INFOTRAC 1-800-535-5053

telephone outside

US

0.3

08-17-2018 Version # Supersedes date Recommended use Cleaner

**Recommended restrictions** None known.

2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Reproductive toxicity

> Category 2 Specific target organ toxicity, repeated exposure Category 2

**OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Suspected of damaging fertility or the unborn child. May cause damage to organs through **Hazard statement** 

prolonged or repeated exposure.

**Precautionary statement** 

Obtain special instructions before use. Do not handle until all safety precautions have been read Prevention

and understood. Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye

protection/face protection.

Response If exposed or concerned: Get medical advice/attention.

Store locked up. **Storage** 

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Diethylene Glycol Monobutyl Ether		112-34-5	2.5 - 10
Diethylene Glycol n-Butyl Ether		111-46-6	2.5 - 10
Polyethylene Glycol		25322-68-3	2.5 - 10

Chemical name	Common name and synonyms	CAS number	%
Diethylene Glycol Monomethyl Ether		111-77-3	0.1 - 1
Other components below reporta	ble levels		90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Prolonged exposure may cause chronic effects.

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

During fire, gases hazardous to health may be formed.

Move containers from fire area if you can do so without risk.

Do not use water jet as an extinguisher, as this will spread the fire.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed **General information**  Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions** 

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

ComponentsTypeValueFormDiethylene Glycol<br/>Monobutyl Ether (CAS<br/>112-34-5)TWA10 ppmInhalable fraction and vapor.

US. Workplace Environmental Exposure Level (WEEL) Guides

ComponentsTypeValueFormDiethylene Glycol n-Butyl<br/>Ether (CAS 111-46-6)TWA10 mg/m3Polyethylene Glycol (CAS<br/>25322-68-3)TWA10 mg/m3Particulate.

**Biological limit values**No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical stateLiquid.FormLiquid.ColorNot ava

ColorNot available.OdorNot available.Odor thresholdNot available.

**PH** 8.6

Melting point/freezing point -59.8 °F (-51 °C) Supplier estimated / < -58 °F (< -50 °C) Supplier

Initial boiling point and boiling

range

500 °F (260 °C) 760 mmHg ASTM E1719

Flash point 280.4 °F (138.0 °C) Pensky-Martens Closed Cup Supplier

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure < 0.01 mm Hg @ 20C estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 590 °F (310 °C) supplier

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Explosive properties** Not explosive.

Flammability class Combustible IIIB estimated

Heat of combustion (NFPA

30B)

1.65 kJ/g estimated

Kinematic viscosity 990 cSt @-40 °C ISO 3104

Oxidizing properties Not oxidizing.

Percent volatile 25.79 % estimated

Specific gravity 1.06 supplier estimated

VOC (Weight %) 25.79 % estimated

### 10. Stability and reactivity

**Reactivity Chemical**The product is stable and non-reactive under normal conditions of use, storage and transport.

**stability Possibility of**Material is stable under normal conditions.

hazardous No dangerous reaction known under conditions of normal use.

reactions

**Conditions to avoid**Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

**Inhalation** May cause damage to organs through prolonged or repeated exposure by inhalation.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

**Acute toxicity** 

Components Species Test Results

Diethylene Glycol Monobutyl Ether (CAS 112-34-5)

**Acute** 

**Dermal** 

LD50 Rabbit 2764 mg/kg, 24 Hours

Rat 2021 mg/kg

Inhalation

LC50 Rat 74 mg/l/4h

Oral

 LD100
 Rabbit
 4000 mg/kg

 LD50
 Guinea pig
 2000 mg/kg

 Mouse
 2410 mg/kg

 Components
 Species
 Test Results

 Rabbit
 2500 - 3000 mg/kg

 Rat
 7291 mg/kg

Diethylene Glycol Monomethyl Ether (CAS 111-77-3)

Acute Dermal

LD50 Guinea pig 8000 mg/kg, Days

Rabbit 9404 mg/kg, 24 Hours

8980 ml/kg

Oral

 LD100
 Rabbit
 10000 mg/kg

 LD50
 Cat
 > 4080 mg/kg

 Guinea pig
 4160 mg/kg

 Mouse
 7138 mg/kg

 Mouse
 7128 mg/kg

 Rabbit
 > 4000 mg/kg

 Rat
 7128 mg/kg

 6700 ml/kg

Diethylene Glycol n-Butyl Ether (CAS 111-46-6)

Acute Oral

LD50 Human 1120 mg/kg

Rat 16500 mg/kg

Polyethylene Glycol (CAS 25322-68-3)

<u>Acute</u>

Oral LD50

Rat 4300 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye** Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

## 12. Ecological information

#### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Diethylene Glycol Mor	nobutyl Ether (CAS	112-34-5)	
Aquatic			
Crustacea	EC50	Daphnia	2803 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours
		Fish	1304 mg/L, 96 Hours
Diethylene Glycol Mor	nomethyl Ether (CA	S 111-77-3)	
Aquatic			
Algae	IC50	Algae	500.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia	500.0001 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	7500 mg/l, 96 hours
Diethylene Glycol n-B	utyl Ether (CAS 11	1-46-6)	
Aquatic			
Crustacea	EC50	Daphnia	84000 mg/L, 48 Hours
Fish	LC50	Western mosquitofish (Gambusia af	finis) > 32000 mg/l, 96 hours
Polyethylene Glycol (0	CAS 25322-68-3)		
Aquatic			
Fish	LC50	Atlantic salmon (Salmo salar)	> 1000 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Bioaccumulative potential

Persistence and degradability

Partition coefficient n-octanol / water (log Kow)

Diethylene Glycol Monobutyl Ether

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

0.56

No data is available on the degradability of this product.

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and the IBC Code

## 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

**US. Massachusetts RTK - Substance List** 

Diethylene Glycol Monomethyl Ether (CAS 111-77-3)

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Diethylene Glycol Monomethyl Ether (CAS 111-77-3) Diethylene Glycol n-Butyl Ether (CAS 111-46-6)

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene Glycol Monomethyl Ether (CAS 109-86-4) Listed: January 1, 1989

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene Glycol Monomethyl Ether (CAS 109-86-4) Listed: January 1, 1989

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Product name: DOT 3 BRAKE FLUID

Product #: FVPBF312, FVPBF31GAL, FVPBF332 Version #: 03 Revision date: 09-13-2018 Issue date: 08-09-2018

Country(s) or region Inventory name On inventory (yes/no)\* Europe

European Inventory of Existing Commercial Chemical

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) No Europe Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Existing Chemicals List (ECL) Korea Yes

New Zealand Inventory New Zealand No **Philippines** Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date 08-09-2018 09-13-2018 Revision date

Version # 03

The information provided in this Safety Data Sheet is correct to the best of our knowledge. Disclaimer

information and belief at the date of its publication. The information given is designed only as a quidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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

materials or in any process, unless specified in the text.