

The Valvoline Company

Date Prepared: 01/14/02

MSDS No: 503.0197992-005.009I

DOT 3 BRAKE FLUID 12/12 OZ

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## Material Identity

Product Name: DOT 3 BRAKE FLUID 12/12 OZ

General or Generic ID: GLYCOL SOLUTION

## Company

The Valvoline Company  
 P.O. Box 14000  
 Lexington, KY 40512

## Telephone Numbers

Emergency: 1-800-274-5263  
 Information: 1-859-357-7206

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by volume)
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	44.0- 54.0
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	16.0- 26.0
DIETHYLENE GLYCOL	111-46-6	5.0- 15.0
DIETHYLENE GLYCOL MONOPROPYL ETHER	6881-94-3	0.0- 10.0
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	0.0- 7.0
TRIETHYLENE GLYCOL MONOETHYL ETHER	112-50-5	0.0- 7.0

## 3. HAZARDS IDENTIFICATION

## Potential Health Effects

## Eye

Can cause eye irritation.

## Skin

May cause mild skin irritation. Prolonged or repeated contact may dry and crack the skin.

## Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

## Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring).

## Symptoms of Exposure

mouth and throat irritation (soreness, dry or scratchy feeling, cough), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), kidney damage, liver damage.

Target Organ Effects  
kidney damage.

Developmental Information  
No data

Cancer Information  
No data

Other Health Effects  
No data

Primary Route(s) of Entry  
Skin contact.

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#### 4. FIRST AID MEASURES

##### Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

##### Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

##### Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

##### Inhalation

First aid is not applicable.

##### Note to Physicians

Preexisting disorders of the following organs ( or organ systems) may be aggravated by exposure to this material: skin.

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#### 5. FIRE FIGHTING MEASURES

##### Flash Point

250.0 F (121.1 C) COC

##### Explosive Limit

Not applicable

##### Autoignition Temperature

No data

##### Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, various

hydrocarbons.

#### Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

#### Extinguishing Media

alcohol foam, water fog, carbon dioxide, dry chemical.

#### Fire Fighting Instructions

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

#### NFPA Rating

Health - 1, Flammability - 1, Reactivity - 0

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### 6. ACCIDENTAL RELEASE MEASURES

#### Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

#### Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

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### 7. HANDLING AND STORAGE

#### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

#### Storage

Not applicable

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Eye Protection

Wear safety glasses in compliance with OSHA regulations. (Consult your safety representative.)

#### Skin Protection

Not required under normal conditions of use., Wear normal work clothing covering arms and legs..

#### Respiratory Protections

Not required under normal conditions of use.

#### Engineering Controls

Not required under normal conditions of use.

#### Exposure Guidelines

##### Component

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TRIETHYLENE GLYCOL MONOBUTYL ETHER (143-22-6)

No exposure limits established

DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5)

No exposure limits established

DIETHYLENE GLYCOL (111-46-6)

No exposure limits established

DIETHYLENE GLYCOL MONOPROPYL ETHER (6881-94-3)

No exposure limits established

DIETHYLENE GLYCOL MONOETHYL ETHER (111-90-0)

No exposure limits established

TRIETHYLENE GLYCOL MONOETHYL ETHER (112-50-5)

No exposure limits established

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Boiling Point

(for product) 401.0 F (205.0 C) @ 760.00 mmHg

### Vapor Pressure

Not applicable

### Specific Vapor Density

Not applicable

### Specific Gravity

1.036 @ 77.00 F

### Liquid Density

8.630 lbs/gal @ 77.00 F

1.036 kg/l @ 25.00 C

### Percent Volatiles (Including Water)

No data

### Evaporation Rate

SLOWER THAN ETHYL ETHER

### Appearance

No data

## State

LIQUID

## Physical Form

HOMOGENEOUS SOLUTION

## Color

CLEAR &amp; COLORLESS

## Odor

No data

## pH

Not applicable

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10. STABILITY AND REACTIVITY

## Hazardous Polymerization

Product will not undergo hazardous polymerization.

## Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

## Chemical Stability

Stable.

## Incompatibility

Avoid contact with: strong oxidizing agents.

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11. TOXICOLOGICAL INFORMATION

No data

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12. ECOLOGICAL INFORMATION

No data

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13. DISPOSAL CONSIDERATION

## Waste Management Information

Destroy by liquid incineration. Dispose of in accordance with all applicable local, state and federal regulations.

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14. TRANSPORT INFORMATION

## DOT Information - 49 CFR 172.101

DOT Description:

Not Regulated

Container/Mode:  
 CASES/SURFACE - NO EXCEPTIONS

NOS Component:  
 None

RQ (Reportable Quantity) - 49 CFR 172.101  
 Not applicable

## 15. REGULATORY INFORMATION

### US Federal Regulations

CERCLA RQ - 40 CFR 302.4  
 None

SARA 302 Components - 40 CFR 355 Appendix A  
 None

Section 311/312 Hazard Class - 40 CFR 370.2  
 Immediate(X) Delayed(X) Fire( ) Reactive( ) Sudden  
 Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s)	CAS Number
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6

### International Regulations

Inventory Status  
 DSL (CANADA) The intentional ingredients of this product are  
 NOT listed.

### State and Local Regulations

California Proposition 65  
 None

Pennsylvania RTK Label Information

ETHANOL, 2,2'-OXYBIS-	111-46-6
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## 16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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