

<b>ASHLAND®</b>		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Valvoline™ DOT 3 & 4  
BRAKE FLUID

### Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : BRAKE FLUID

<b>Details of the supplier of the safety data sheet</b> Ashland P.O. Box 2219 Columbus, OH 43216 United States of America  EHS Customer Requests@ashland.com	<b>Emergency telephone number</b> 1-800-ASHLAND (1-800-274-5263)  <b>Regulatory Information Number</b> 1-800-325-3751  <b>Product Information</b> 614-790-3333
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Serious eye damage : Category 1

### GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes serious eye damage.

Precautionary Statements : **Prevention:**  
Wear eye protection/ face protection.  
**Response:**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**Other hazards**

<b>ASHLAND®</b>		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

#### Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
Triethylene glycol monomethyl ether, borate	30989-05-0	Not a hazardous substance or mixture.	40.00
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	Eye Dam. 1; H318	17.99
POLYOXYETHYLENE MONOBUTYL ETHER	9004-77-7	Eye Dam. 1; H318	13.00
TETRAETHYLENE GLYCOL	112-60-7	Not a hazardous substance or mixture.	10.00
TRIETHYLENE GLYCOL	112-27-6	Not a hazardous substance or mixture.	5.00
PENTAETHYLENE GLYCOL	4792-15-8	Not a hazardous substance or mixture.	5.00
DIISOPROPANOLAMINE	110-97-4	Eye Irrit. 2A; H319	1.50

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### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.  
If unconscious place in recovery position and seek medical

<b>ASHLAND®</b>		Page: 3
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

advice.  
If symptoms persist, call a physician.

- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Obtain medical attention.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Causes serious eye damage.  
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)
- Notes to physician :  
  
No hazards which require special first aid measures.

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## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrocarbons

<b>ASHLAND®</b>		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

Alcohols  
Aldehydes  
ethers  
Nitrogen oxides (NOx)

Specific extinguishing methods :

Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

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## SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust. Container hazardous when empty. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

<b>ASHLAND®</b>		Page: 5
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Triethylene glycol monomethyl ether, borate	30989-05-0	TWA	2 mg/m3 Inhalable fraction.	ACGIH
		STEL	6 mg/m3 Inhalable fraction.	ACGIH
TETRAETHYLENE GLYCOL	112-60-7	TWA	10 mg/m3 Particulate.	WEEL
TRIETHYLENE GLYCOL	112-27-6	TWA	10 mg/m3 Particulate.	WEEL
PENTAETHYLENE GLYCOL	4792-15-8	TWA	10 mg/m3 Particulate.	WEEL
DIISOPROPANOLAMINE	110-97-4	TWA	10 ppm	SUPLR EXP
		TWA	10 ppm	SUPLR EXP
		TWA	10 ppm	SUPLR EXP
		TWA	10 ppm	SUPLR EXP

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate:  
impervious clothing  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
When using do not smoke.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

<b>ASHLAND®</b>		Page: 6
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

Colour : yellow  
 Odour : ammoniacal  
 Odour Threshold : No data available  
 pH : No data available  
 Melting point/freezing point : < -74 °F / < -59 °C  
 Boiling point/boiling range : > 469 °F / > 243 °C  
 Flash point : 250 °F / 121 °C  
 Method: Closed Cup  
 Evaporation rate : No data available  
 Flammability (solid, gas) : No data available  
 Upper explosion limit : No data available  
 Lower explosion limit : No data available  
 Vapour pressure : Estimated < 0.01 mmHg  
 Relative vapour density : > 10AIR=1  
 Relative density : No data available  
 Density : 1.03 - 1.08 g/cm3  
 Solubility(ies)  
   Water solubility : soluble  
   Solubility in other solvents : No data available  
 Partition coefficient: n-octanol/water : No data available  
 Thermal decomposition : No data available  
 Viscosity  
   Viscosity, dynamic : No data available  
   Viscosity, kinematic : 1,100 mm2/s (40 °C)  
 Oxidizing properties : No data available

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

<b>ASHLAND®</b>		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat  
Do not allow evaporation to dryness.

Incompatible materials : Acids  
Alkaline earth metals  
aluminum  
Bases  
Copper  
galvanized metals  
halogenated hydrocarbons  
nitrites  
strong alkalis  
Strong oxidizing agents  
Zinc

Hazardous decomposition products : acetaldehyde  
Alcohols  
Aldehydes  
carbon dioxide and carbon monoxide  
dioxolanes  
ethers  
ethylene glycol monomethyl ether  
formaldehyde-like  
Nitrogen oxides (NOx)  
Organic acids  
ketones

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

### Acute toxicity

Not classified based on available information.

### Components:

Triethylene glycol monomethyl ether, borate:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: No adverse effect has been observed in acute oral toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

<b>ASHLAND®</b>		Page: 8
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**TRIETHYLENE GLYCOL MONOBUTYL ETHER:**

Acute oral toxicity : LD 50 (Rat): 5,300 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): 3,502 mg/kg

**POLYOXYETHYLENE MONOBUTYL ETHER:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): 3,540 mg/kg

**TETRAETHYLENE GLYCOL:**

Acute oral toxicity : LD 50 (Rat): ca. 30,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): 22,460 mg/kg

**TRIETHYLENE GLYCOL:**

Acute oral toxicity : LD 50 (Rat): 15,000 - 22,000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 3.9 mg/l  
Exposure time: 4 h  
Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD 50 (Rabbit): > 22.6 g/kg

Acute toxicity (other routes of administration) : LD 50 (Rat): 11,700 mg/kg  
Application Route: Intravenous

**DIISOPROPANOLAMINE:**

Acute oral toxicity : LD 50 (Rat): > 2,000 mg/kg  
Assessment: No adverse effect has been observed in acute oral toxicity tests.

Acute dermal toxicity : LD 50 (Rabbit): 8,000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Result: Repeated exposure may cause skin dryness or cracking.

**Components:**

Triethylene glycol monomethyl ether, borate:  
Result: Not irritating to skin

**TRIETHYLENE GLYCOL MONOBUTYL ETHER:**

Result: Not irritating to skin

**POLYOXYETHYLENE MONOBUTYL ETHER:**

Result: Slightly irritating to skin



<b>ASHLAND®</b>		Page: 9
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

TETRAETHYLENE GLYCOL:  
Result: Not irritating to skin

TRIETHYLENE GLYCOL:  
Result: Not irritating to skin

PENTAETHYLENE GLYCOL:  
Result: Slightly irritating to skin

DIISOPROPANOLAMINE:  
Result: Not irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:**

Triethylene glycol monomethyl ether, borate:  
Result: Slightly irritating to eyes

TRIETHYLENE GLYCOL MONOBUTYL ETHER:  
Result: Corrosive to eyes

POLYOXYETHYLENE MONOBUTYL ETHER:  
Result: Corrosive to eyes

TETRAETHYLENE GLYCOL:  
Result: Mildly irritating to eyes

TRIETHYLENE GLYCOL:  
Result: Mildly irritating to eyes

PENTAETHYLENE GLYCOL:  
Result: Slightly irritating to eyes

DIISOPROPANOLAMINE:  
Result: Severely irritating to eyes

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:**

POLYOXYETHYLENE MONOBUTYL ETHER:  
Test Type: Maximisation Test (GPMT)  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

PENTAETHYLENE GLYCOL:

<b>ASHLAND®</b>		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: Mouse  
Cell type: Bone marrow  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks: No data available

**Carcinogenicity:**

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

Triethylene glycol monomethyl ether, borate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): >= 500 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l  
Exposure time: 72 h

<b>ASHLAND®</b>		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

Method: OECD Test Guideline 201

**POLYOXYETHYLENE MONOBUTYL ETHER:**

Toxicity to fish : LC50 (Flatfish, flounder (*Scophthalmus maximus*)): > 1,800 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203

Toxicity to algae : ErC50 (*Skeletonema costatum* (marine diatom)): 391 mg/l  
 Exposure time: 72 h

**TETRAETHYLENE GLYCOL:**

Toxicity to fish : LC 50 (*Pimephales promelas* (fathead minnow)): > 1,000 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC 50 (*Daphnia magna*): 7,746 mg/l  
 Exposure time: 48 h

Toxicity to algae : IC50 (*Pseudokirchneriella subcapitata* (green algae)): > 1,000 mg/l

**TRIETHYLENE GLYCOL:**

Toxicity to fish : LC 50 (*Lepomis macrochirus*): > 10,000 mg/l  
 Exposure time: 96 h  
 Method: Static  
 Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : EC 50 (*Daphnia magna*): 46,500 mg/l  
 Exposure time: 48 h  
 Method: Static  
 Remarks: Intoxication

**DIISOPROPANOLAMINE:**

Toxicity to fish : LC 50 (*Carassius auratus* (goldfish)): 1,100 mg/l  
 Exposure time: 24 h  
 Test Type: static test

**Persistence and degradability**

**Components:**

Triethylene glycol monomethyl ether, borate:

Biodegradability : Biodegradation: > 70 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301A

**TETRAETHYLENE GLYCOL:**

Biodegradability : Biodegradation: 40 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301D

**TRIETHYLENE GLYCOL:**

<b>ASHLAND®</b>		Page: 12
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

Biodegradability : Result: Readily biodegradable

**Bioaccumulative potential**

**Components:**

**TETRAETHYLENE GLYCOL:**

Partition coefficient: n-octanol/water : log Pow: Estimated -2.30

**TRIETHYLENE GLYCOL:**

Bioaccumulation : Species: Sheepshead minnow (*Cyprinodon variegatus*)  
 Bioconcentration factor (BCF): 1,700  
 Exposure time: 28 d  
 Concentration: 7.8 mg/l  
 Method: Flow through

**PENTAETHYLENE GLYCOL:**

Partition coefficient: n-octanol/water : log Pow: -2.3

**DIISOPROPANOLAMINE:**

Partition coefficient: n-octanol/water : log Pow: -0.82

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No data available

**Components:**

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : Do not dispose of waste into sewer.  
 Do not contaminate ponds, waterways or ditches with chemical or used container.  
 Send to a licensed waste management company.  
 Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.  
 Empty containers should be taken to an approved waste

**SAFETY DATA SHEET**

Revision Date: 05/22/2015

Print Date: 5/28/2015

SDS Number: R0330094

Valvoline™ DOT 3 &amp; 4 BRAKE FLUID

Version: 1.0

601457

handling site for recycling or disposal.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION****International transport regulations****REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**TRANSPORT CANADA - INLAND WATERWAYS**

Not dangerous goods

**TRANSPORT CANADA - RAIL**

Not dangerous goods

**TRANSPORT CANADA - ROAD**

Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**U.S. DOT - RAIL**

Not dangerous goods

**U.S. DOT - ROAD**

Not dangerous goods

<b>ASHLAND®</b>		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
SODIUM HYDROXIDE	1310-73-2	1000	100010.001

**SARA 311/312 Hazards** : Acute Health Hazard

#### SARA 313 Component(s)

TRIETHYLENE GLYCOL MONOMETHYL ETHER	112-35-6	30.00 %
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	17.99 %

#### Pennsylvania Right To Know

Triethylene glycol monomethyl ether, borate	30989-05-0	30.00 - 50.00 %
POLYETHYLENE GLYCOL MONOMETHYL ETHER	9004-74-4	30.00 - 50.00 %
TRIETHYLENE GLYCOL MONOMETHYL ETHER	112-35-6	30.00 - 50.00 %
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	10.00 - 20.00 %
POLYOXYETHYLENE MONOBUTYL ETHER	9004-77-7	10.00 - 20.00 %
TETRAETHYLENE GLYCOL	112-60-7	10.00 - 20.00 %
TRIETHYLENE GLYCOL	112-27-6	5.00 - 10.00 %
PENTAETHYLENE GLYCOL	4792-15-8	5.00 - 10.00 %
DIISOPROPANOLAMINE	110-97-4	1.00 - 5.00 %

<b>ASHLAND®</b>		Page: 15
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

**New Jersey Right To Know**

Triethylene glycol monomethyl ether, borate	30989-05-0	30.00 - 50.00 %
POLYETHYLENE GLYCOL MONOMETHYL ETHER	9004-74-4	30.00 - 50.00 %
TRIETHYLENE GLYCOL MONOMETHYL ETHER	112-35-6	30.00 - 50.00 %
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	10.00 - 20.00 %
POLYOXYETHYLENE MONOBUTYL ETHER	9004-77-7	10.00 - 20.00 %

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

TSCA	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL.
AUSTR	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory
KECL	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

<b>ASHLAND®</b>		Page: 16
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
601457		

## SECTION 16. OTHER INFORMATION

### Further information

Revision Date: 05/22/2015

<b>NFPA:</b>	<b>HMIS III:</b>						
<p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard.</p>	<table border="1"> <tr> <td><b>HEALTH</b></td> <td><b>2</b></td> </tr> <tr> <td><b>FLAMMABILITY</b></td> <td><b>1</b></td> </tr> <tr> <td><b>PHYSICAL HAZARD</b></td> <td><b>0</b></td> </tr> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>2</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>2</b>						
<b>FLAMMABILITY</b>	<b>1</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

### Full text of H-Statements referred to under sections 2 and 3.

H318 Causes serious eye damage.  
H319 Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet  
Ashland internal data including own and sponsored test reports  
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
BEI : Biological Exposure Index  
CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
FG : Food grade  
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
H-statement : Hazard Statement  
IATA : International Air Transport Association.



<b>ASHLAND®</b>		Page: 17
<b>SAFETY DATA SHEET</b>		Revision Date: 05/22/2015
		Print Date: 5/28/2015
		SDS Number: R0330094
Valvoline™ DOT 3 & 4 BRAKE FLUID		Version: 1.0
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IATA-DGR : Dangerous Goods Regulation by the “International Air Transport Association” (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the “International Civil Aviation Organization”

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System