# Valvoline™ DOT 3 & 4 BRAKE FLUID

| Version | Revision Date: | SDS Number: | Date of last issue: 04/21/2017 |
|---|---|---|---|
| 1.2 | 04/21/2017 | 600000000308 | Date of first issue: 05/23/2016 |

## SECTION 1. IDENTIFICATION

Product name : Valvoline™ DOT 3 & 4 BRAKE FLUID

Product code : 601457

**Manufacturer or supplier's details**

Company name of supplier : Niteo Products,LLC

Address : Dallas TX 19162

Telephone : 1-844-696-4836

Emergency telephone number : 1-800-424-9300

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

Recommended use : Lubricant

Restrictions on use : Use only outdoors or in a well-ventilated area.

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Serious eye damage : Category 1

Reproductive toxicity : Category 2

**GHS label elements**

Hazard pictograms :

Signal word : Danger

Hazard statements : H318 Causes serious eye damage.
H361d Suspected of damaging the unborn child.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
**Response:**
P305 + P351 + P338 + P310 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/doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
**Storage:**
P405 Store locked up.
**Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Substance name : NITEO

**Hazardous components**

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|---|---|
| Triethylene glycol monomethyl ether, borate | 30989-05-0 | >= 30 - < 50 |
| TRIETHYLENE GLYCOL MONOBUTYL ETHER | 143-22-6 | >= 10 - < 20 |
| POLYOXYETHYLENE MONOBUTYL ETHER | 9004-77-7 | >= 10 - < 20 |
| DIISOPROPANOLAMINE | 110-97-4 | >= 1 - < 5 |
| DIETHYLENE GLYCOL MONOMETHYL ETHER | 111-77-3 | >= 0.1 - < 1 |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.

If swallowed : 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.
Suspected of damaging the unborn child.

## SECTION 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Water spray<br>Carbon dioxide (CO2) |
| Specific hazards during fire-fighting | : | 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. |
| Specific extinguishing methods | : | Product is compatible with standard fire-fighting agents. |
| Further information | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Avoid breathing dust.<br>Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. |
| Methods and materials for containment and cleaning up | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |

## SECTION 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
| Advice on safe handling | : | Smoking, eating and drinking should be prohibited in the application area.<br>For personal protection see section 8. |
| Materials to avoid | : | No materials to be especially mentioned. |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Hazardous components without workplace control parameters**

| Components | CAS-No. |
|---|---|

| | |
|---|---|
| Triethylene glycol monomethyl ether, borate | 30989-05-0 |
| TRIETHYLENE GLYCOL MONOBUTYL ETHER | 143-22-6 |
| POLYOXYETHYLENE MONOBUTYL ETHER | 9004-77-7 |
| DIISOPROPANOLAMINE | 110-97-4 |
| DIETHYLENE GLYCOL MONOMETHYL ETHER | 111-77-3 |

**Engineering measures** : General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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**

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : Wear resistant gloves (consult your safety equipment supplier).

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Wear as appropriate:
Safety shoes

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : yellow

Odour : ammoniacal

pH : 7.7

Melting point/freezing point : < -59 °C

Boiling point/boiling range : > 243 °C

Flash point : 132 °C
Method: closed cup

| | | |
|---|---|---|
| Evaporation rate | : | No data available |
| | | No data available |
| Flammability (solid, gas) | : | No data available |
| Upper explosion limit | : | No data available |
| | | No data available |
| Lower explosion limit | : | No data available |
| | | No data available |
| Vapour pressure | : | estimated < 0.01 mmHg |
| Density | : | 1.03 - 1.08 g/cm3 |
| Solubility(ies) | | |
| Water solubility | : | soluble |
| Partition coefficient: n-octanol/water | : | No data available |
| | | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | No data available |
| | | No data available |
| Viscosity, kinematic | : | 1100 mm2/s (40 °C) |
| Oxidizing properties | : | No data available |
| | | No data available |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Reactivity | : | No decomposition if stored and applied as directed. |
| Chemical stability | : | No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : | Stable under recommended storage conditions.<br>No hazards to be specially mentioned.<br>Hazardous polymerisation does not occur. |
| Conditions to avoid | : | Heat<br>Do not allow evaporation to dryness. |
| | | No data available |
| Incompatible materials | : | Acids<br>Alkaline earth metals |

Aluminium
Bases
Copper
galvanized metals
Halogenated compounds
Nitrites
Strong bases
Strong oxidizing agents
Zinc

## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**
Inhalation
Skin contact
Eye contact

**Acute toxicity**

Not classified based on available information.

**Product:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Acute toxicity estimate: > 5,000 mg/kg<br>Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 5,000 mg/kg<br>Method: Calculation method<br><br>Remarks: Skin absorption of this material (or a component) may be increased through injured skin. |

**Components:**

**Triethylene glycol monomethyl ether, borate:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 401<br>Assessment: No adverse effect has been observed in acute oral toxicity tests. |
| Acute dermal toxicity | : | LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: No adverse effect has been observed in acute dermal toxicity tests. |

**TRIETHYLENE GLYCOL MONOBUTYL ETHER:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): 5,300 mg/kg |
| Acute dermal toxicity | : | LD50 (Rabbit): 3,502 mg/kg |

**POLYOXYETHYLENE MONOBUTYL ETHER:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 401 |
| Acute dermal toxicity | : | LD50 (Rabbit): 3,540 mg/kg |

**DIISOPROPANOLAMINE:**

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

Acute dermal toxicity : LD50 (Rabbit): 8,000 mg/kg

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**

Acute oral toxicity : LD50 (Mouse): > 5,288 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): > 1.2 mg/l
Exposure time: 6 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 9,404 mg/kg
Method: OECD Test Guideline 402

**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: No skin irritation

**TRIETHYLENE GLYCOL MONOBUTYL ETHER:**
Result: No skin irritation

**POLYOXYETHYLENE MONOBUTYL ETHER:**
Result: Possibly irritating to skin

**DIISOPROPANOLAMINE:**
Result: No skin irritation

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:**

**Triethylene glycol monomethyl ether, borate:**
Result: Mild eye irritation

**TRIETHYLENE GLYCOL MONOBUTYL ETHER:**

Result: Irreversible effects on the eye

**POLYOXYETHYLENE MONOBUTYL ETHER:**
Result: Irreversible effects on the eye

**DIISOPROPANOLAMINE:**
Result: Irritating to eyes.

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**
Species: Rabbit
Result: Possibly irritating to eyes
Method: OECD Test Guideline 405

**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
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**
Test Type: Maximisation Test
Species: Guinea pig
Assessment: Does not cause skin sensitisation.
Method: OECD Test Guideline 406

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Test Type: Ames test<br>Species: Salmonella typhimurium<br>Metabolic activation: with and without metabolic activation<br>Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)<br>Result: negative |

**Carcinogenicity**

Not classified based on available information.

| | |
|---|---|
| **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.

**Reproductive toxicity**

Suspected of damaging the unborn child.

**Components:**

**DIETHYLENE GLYCOL MONOMETHYL ETHER:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

**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

## SECTION 12. ECOLOGICAL INFORMATION

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

## SECTION 14. TRANSPORT INFORMATION

**International Regulations**

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

**49 CFR**
Not regulated as a dangerous good

**49 CFR**
Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

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

**CERCLA Reportable Quantity**

| Components | CAS-No. | Component RQ (lbs) | Component RQ (lbs) |
|---|---|---|---|
| SODIUM HYDROXIDE | 1310-73-2 | 1000 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**
This material does not contain any components with a section 304 EHS RQ.

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

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations**

**Massachusetts Right To Know**

| | |
|---|---|
| DIISOPROPANOLAMINE | 110-97-4 |

**Pennsylvania Right To Know**

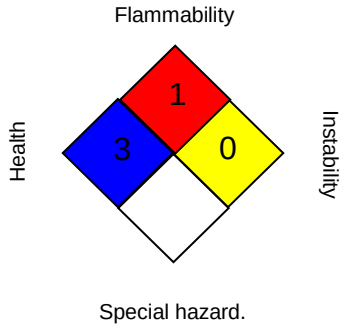
| | |
|---|---|
| Triethylene glycol monomethyl ether, borate | 30989-05-0 |
| POLYETHYLENE GLYCOL MONOMETHYL ETHER | 9004-74-4 |
| TRIETHYLENE GLYCOL MONOMETHYL ETHER | 112-35-6 |
| TRIETHYLENE GLYCOL MONOBUTYL ETHER | 143-22-6 |
| POLYOXYETHYLENE MONOBUTYL ETHER | 9004-77-7 |
| TETRAETHYLENE GLYCOL | 112-60-7 |
| TRIETHYLENE GLYCOL | 112-27-6 |
| PENTAETHYLENE GLYCOL | 4792-15-8 |
| DIISOPROPANOLAMINE | 110-97-4 |
| SODIUM HYDROXIDE | 1310-73-2 |

| | |
|---|---|
| **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.<br>This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. |

## SECTION 16. OTHER INFORMATION

### Further information

**NFPA:**




**HMIS III:**

| | |
|---|---|
| HEALTH | 3* |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance 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.

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