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## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Valvoline Professional Series™ VPS DOT 4 BRAKE FLD  
™ Trademark, Valvoline or its subsidiaries, registered in various countries

Product code : 608334

Company : Valvoline LLC  
3499 Blazer Parkway  
Lexington, KY 40509  
  
United States of America

E-mail address : SDS@valvoline.com  
Telephone : 1-800-TEAMVAL  
Telefax :


Emergency telephone number : 1-800-VALVOLINE

## 2. HAZARDS IDENTIFICATION

### GHS Classification

Skin irritation : Category 2  
Serious eye damage : Category 1  
Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Kidney)


### GHS-Labeling

Hazard pictograms : 

Signal word : Danger

Hazard statements : H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H373 May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

Precautionary statements : **Prevention:**  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical Name	CAS-No.	Concentration
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	>=10 - <30 %
DIETHYLENE GLYCOL	111-46-6	>=1 - <5 %
SODIUM HYDROXIDE	1310-73-2	>=1 - <5 %
DIISOPROPANOLAMINE	110-97-4	>=1 - <5 %

### 4. FIRST AID MEASURES

General advice : Consult a physician.  
Show this safety data sheet to the doctor in attendance.


#### First aid measures for different exposure routes

In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.  
Remove contact lenses.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off immediately with plenty of water.  
Wash contaminated clothing before re-use.  
If skin irritation persists, call a physician.

If inhaled : Move to fresh air.  
If symptoms persist, call a physician.  
In case of shortness of breath, give oxygen.

If swallowed : Do not induce vomiting without medical advice.

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Never give anything by mouth to an unconscious person.  
Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed (new) : 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)  
Cough  
central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness)  
pain in the abdomen and lower back  
lung edema (fluid buildup in the lung tissue)  
acute kidney failure (sudden slowing or stopping of urine production)  
lung damage  
damage to the mouth, throat, and/or airways  
Difficulty in breathing

Ingestion or other significant exposure to this material (or a component) may cause metabolic acidosis.

Notes to physician (new) :

Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol, diethylene glycol and methanol poisoning.


## 5. FIREFIGHTING MEASURES

Suitable extinguishing media : ABC powder  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Water mist

Unsuitable extinguishing media : Halons

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Alcohols  
Aldehydes  
carbon dioxide and carbon monoxide  
corrosive vapors  
ethers  
Hydrocarbons

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Ketones  
Nitrogen oxides (NOx)  
Sodium oxides  
toxic fumes

- Specific extinguishing methods : Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system. 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. Use personal protective equipment.

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## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Large spills should be collected mechanically (remove by pumping) for disposal. Keep in suitable, closed containers for disposal.
- Additional advice : Comply with all applicable federal, state, and local regulations.

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## 7. HANDLING AND STORAGE

### Handling

- Technical measures : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours or spray mist. Avoid contact with skin and eyes. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding of the given occupational exposure limits (see section 8). Smoking, eating and drinking should be prohibited in the application area.
- Avoidance of contact : Acids  
Alkaline earth metals  
aluminum  
Bases  
Copper  
galvanized metals  
halogenated hydrocarbons

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Metals  
 nitrites  
 organic nitro compounds  
 strong alkalis  
 Strong oxidizing agents  
 water  
 Zinc

**Storage**


Conditions for safe storage : Store in original container.  
 Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Acids, Alkaline earth metals, aluminum, Bases, Copper, galvanized metals, halogenated hydrocarbons, Metals, nitrites, organic nitro compounds, strong alkalis, Strong oxidizing agents, water, Zinc

Other data : Stable under recommended storage conditions.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Value (Form of exposure)	Control parameters / Permissible concentration	Basis
SODIUM HYDROXIDE	1310-73-2	Ceiling	2 mg/m <sup>3</sup>	UY OEL
SODIUM HYDROXIDE	1310-73-2	Ceiling	2 mg/m <sup>3</sup>	PY OEL
SODIUM HYDROXIDE	1310-73-2	Ceiling	2 mg/m <sup>3</sup>	EC OEL
SODIUM HYDROXIDE	1310-73-2	Ceiling	2 mg/m <sup>3</sup>	CR OEL
Triethylene glycol monomethyl ether, borate	30989-05-0	TWA (Inhalable fraction.)	2 mg/m <sup>3</sup>	UY OEL
Triethylene glycol monomethyl ether, borate	30989-05-0	STEL (Inhalable fraction.)	6 mg/m <sup>3</sup>	UY OEL
Triethylene glycol monomethyl ether, borate	30989-05-0	TWA (Inhalable fraction.)	2 mg/m <sup>3</sup>	PY OEL
Triethylene glycol monomethyl ether, borate	30989-05-0	STEL (Inhalable fraction.)	6 mg/m <sup>3</sup>	PY OEL
Triethylene glycol monomethyl ether, borate	30989-05-0	TWA (Inhalable fraction.)	2 mg/m <sup>3</sup>	EC OEL
Triethylene glycol monomethyl ether, borate	30989-05-0	STEL (Inhalable fraction.)	6 mg/m <sup>3</sup>	EC OEL

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		fraction.)		
Triethylene glycol monomethyl ether, borate	30989-05-0	TWA (Inhalable fraction.)	2 mg/m3	CR OEL
Triethylene glycol monomethyl ether, borate	30989-05-0	STEL (Inhalable fraction.)	6 mg/m3	CR OEL
Triethylene glycol monomethyl ether, borate	30989-05-0	(Inhalable fraction.)		CR OEL

#### US. ACGIH Threshold Limit Values

Components	CAS-No.	Value (Form of exposure)	Control parameters / Permissible concentration	Basis
SODIUM HYDROXIDE	1310-73-2	Ceiling	2 mg/m3	ACGIH
Triethylene glycol monomethyl ether, borate	30989-05-0	TWA (Inhalable fraction.)	2 mg/m3	ACGIH
Triethylene glycol monomethyl ether, borate	30989-05-0	STEL (Inhalable fraction.)	6 mg/m3	ACGIH

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

#### Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection : Safety glasses with side-shields


Hand protection : Wear resistant gloves such as:

Material : butyl-rubber  
Nitrile rubber

Skin and body protection : Wear as appropriate:  
Safety shoes

Hygiene measures : Keep away from food, drink and animal feedingstuffs.  
When using do not eat, drink or smoke.  
Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES


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Appearance	: liquid
Colour	: yellow
Odour	: ammoniacal
pH	: No data available
Freezing point	: No data available
Boiling point	: Estimated 282 °C (1013 hPa)
Flash point	: 121 °C Method: Closed Cup
Self-ignitable	: > 419 °F
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: < 0.16798 hPa (20 °C)
Relative vapour density	: > 10AIR=1
Density	: Average 1.055 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available
Relative vapour density	: > 10AIR=1
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

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## 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	: No hazards to be specially mentioned.  Hazardous polymerisation does not occur.
Conditions to avoid	: excessive heat temperatures above 150 degrees F (66 °C) Do not allow evaporation to dryness. Heat, flames and sparks. Exposure to sunlight. Exposure to moisture.

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

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

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## 11. TOXICOLOGICAL INFORMATION

### **Product**

Acute oral toxicity : No data available

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Skin corrosion/irritation : No data available

Serious eye damage/eye irritation : No data available

Respiratory or skin sensitisation : No data available



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**Components:****TRIETHYLENE GLYCOL MONOBUTYL ETHER:**

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

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

**DIETHYLENE GLYCOL:**

Acute oral toxicity : LD50 Human: Expected 1,120 mg/kg  
Target Organs: Kidney

Acute inhalation toxicity : LC50 rat: > 4.6 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
No adverse effect has been observed in acute inhalation  
toxicity tests.

Acute dermal toxicity : LD 50 Rabbit: 13,300 mg/kg

Respiratory or skin sensitisation : Test Method: Maximisation Test (GPMT)  
Species: guinea pig  
Result: Did not cause sensitisation on laboratory animals.  
Method: Directive 67/548/EEC, Annex V, B.6.

**Germ cell mutagenicity**

Genotoxicity in vitro : Type: Ames test  
with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 471  
GLP: yes

: Test species: Chinese hamster ovary cells  
with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 479  
GLP: yes

Genotoxicity in vivo : Type: In vivo micronucleus test  
Test species: mouse Method: OECD Test Guideline 474  
GLP: yes  
Result: negative

STOT - repeated exposure : Exposure routes: Ingestion  
Target Organs: Kidney  
Assessment: May cause damage to organs through prolonged  
or repeated exposure.

Experience with human : Liver

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exposure

**SODIUM HYDROXIDE:**

Acute oral toxicity : LD Lo Rabbit: 500 mg/kg

**DIISOPROPANOLAMINE:**

Acute oral toxicity : LD 50 Rat: 2,000 mg/kg

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

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

No data available

**Components:****DIETHYLENE GLYCOL:**

Toxicity to fish : LC 50 (Fathead minnow (*Pimephales promelas*)): 75,210 mg/l  
Exposure time: 96 h  
Test Method: flow-through test

Toxicity to daphnia and other  
aquatic invertebrates : LC 50 (Water flea (*Daphnia magna*)): > 10,000 mg/l  
Exposure time: 24 h  
Test Method: static test  
Method: DIN 38412

**SODIUM HYDROXIDE:**

Toxicity to fish : LC 50 (Western mosquitofish (*Gambusia affinis*)): 125 mg/l  
Exposure time: 96 h  
Method: Static  
Mortality

Toxicity to daphnia and other  
aquatic invertebrates : EC 50 (Water flea (*Daphnia magna*)): 34.59 - 47.13 mg/l  
Exposure time: 48 h  
Intoxication

**DIISOPROPANOLAMINE:**

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

**Persistence and degradability****Product:**

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No data available

**Components:****DIETHYLENE GLYCOL:**

Biodegradability : Result: **Readily biodegradable.**  
Biodegradation: **70 - 80 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301B**

**Bioaccumulative potential****Product:**

No data available

**Components:****DIETHYLENE GLYCOL:**

Bioaccumulation : Species: **Leuciscus idus (Golden orfe)**  
Bioconcentration factor (BCF): **100**  
Partition coefficient: n-  
octanol/water : log Pow: **-1.47**

**DIISOPROPANOLAMINE:**

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

**Mobility in soil****Product:**

No data available

**Components:****TRIETHYLENE GLYCOL MONOBUTYL ETHER:**


Surface tension : **31.4 mN/m**

**DIETHYLENE GLYCOL:**

Surface tension : **48.5 mN/m**

**SODIUM HYDROXIDE:**

Surface tension : **101.05 mN/m**

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#### Other adverse effects

##### Product:

Ozone-Depletion Potential : No data available

##### Components:

No data available

### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of in accordance with the European Directives on waste and hazardous waste.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Container hazardous when empty.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

#### DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

#### International transport regulations

##### REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO


Not dangerous goods
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#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods
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#### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods
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**UN\_DG**

Not dangerous goods
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**\*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.

**15. REGULATORY INFORMATION**

**Other international regulations**

**Notification status**

- Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) : y (positive listing)
- Australia. Industrial Chemical (Notification and Assessment) Act : n (Negative listing)
- Japan. ENCS - Existing and New Chemical Substances Inventory : y (positive listing)
- Korea. Toxic Chemical Control Law (TCCL) List : y (positive listing)
- Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : y (positive listing)
- China. Inventory of Existing Chemical Substances : y (positive listing)


**16. OTHER INFORMATION**

**Further information**

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. This MSDS has been prepared by Valvoline's Environmental Health and Safety Department.

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

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IATA : International Air Transport Association.  
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