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Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : Valvoline™ BRAKEFLUID DOT 3  
BRAKE FLUID

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

<b>1.3 Details of the supplier of the safety data sheet</b> Ellis Enterprises B.V., an affiliate of Valvoline Wieldrechtseweg 39 3316 BG Dordrecht Netherlands +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person  SDS@valvoline.com	<b>1.4 Emergency telephone number</b> 00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number at 112  <b>Product Information</b> +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person
---	---

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4

H302: Harmful if swallowed.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Specific target organ toxicity - repeated  
exposure, Category 2, Kidney

H373: May cause damage to organs through  
prolonged or repeated exposure if swallowed.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word :

Warning


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Hazard statements	: H319 H373	Causes serious eye irritation. May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.
Precautionary statements	: P101  P102 <b>Prevention:</b> P260  P280 <b>Response:</b> P305 + P351 + P338  P314	If medical advice is needed, have product container or label at hand. Keep out of reach of children.  Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wear eye protection/ face protection.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention if you feel unwell.

Hazardous components which must be listed on the label:  
2,2' -Oxybisethanol


**2.3 Other hazards**
**Additional advice**

No information available.

**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**
**Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Ethanol, 2-butoxy-, manufacture of, by- products from	161907-77-3 310-287-7	Eye Dam.1; H318	>= 25,00 - < 30,00
2,2' -Oxybisethanol	111-46-6 203-872-2 01-2119457857-21-xxxx	Acute Tox.4; H302 STOT RE2; H373	>= 25,00 - < 40,00
2-(2-Methoxyethoxy)ethanol	111-77-3 203-906-6	Repr.2; H361d	>= 2,50 - < 3,00

For explanation of abbreviations see section 16.

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## SECTION 4: First aid measures

### 4.1 Description of 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 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.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : 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)  
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)
- Risks : Causes serious eye irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment :

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

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

### 5.3 Advice for firefighters

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


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.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

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Comply with all applicable federal, state, and local regulations.

## 6.2 Environmental precautions

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.

## 6.3 Methods and material for containment and cleaning up

Methods for 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.

## 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

---

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.  
Do not smoke.  
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.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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


## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions.

Other data : No decomposition if stored and applied as directed.

## 7.3 Specific end use(s)

Specific use(s) : No data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2,2' -Oxybisethanol	111-46-6	TWA	23 ppm 101 mg/m <sup>3</sup>	GB EH40
2-(2-Methoxyethoxy)ethanol	111-77-3	TWA	10 ppm 50,1 mg/m <sup>3</sup>	2006/15/EC
		TWA	10 ppm 50,1 mg/m <sup>3</sup>	GB EH40

### 8.2 Exposure controls

#### 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

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.  
Maintain eye wash station in immediate work area.

Hand protection

Remarks : butyl-rubber Nitrile rubber


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

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.


## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

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Colour : light yellow  
 Odour : mild  
 Odour Threshold : No data available  
 pH : 9,8  
 Concentration: 50 %  
 Melting point/freezing point : No data available  
 Boiling point/boiling range : 235 °C  
 (1.013 hPa)  
 Flash point : 111 °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 : < 0,01 hPa (20 °C)  
 Relative vapour density : No data available  
 Relative density : 1,039 (20 °C)  
 Density : 1,039 g/cm3 (20 °C)  
 Solubility(ies)  
     Water solubility : soluble  
     Solubility in other solvents : No data available  
 Partition coefficient: n-octanol/water : Pow: 0,44  
 Decomposition temperature : No data available  
 Viscosity  
     Viscosity, dynamic : No data available  
     Viscosity, kinematic : 1350 mm2/s (40 °C)  
                                     1,7 mm2/s (100 °C)

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Oxidizing properties : No data available

## 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
strong alkalis  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Alcohols  
Aldehydes  
carbon dioxide and carbon monoxide  
ethers  
Hydrocarbons  
Organic acids  
ketones

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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





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## Acute toxicity

Not classified based on available information.

### Product:

Acute oral toxicity : Remarks: Ingestion of medications contaminated with diethylene glycol has caused kidney failure and death in humans. Products containing diethylene glycol should be considered toxic by ingestion.

Acute dermal toxicity : Remarks: Skin absorption of this material (or a component) may be increased through injured skin.

### Components:

Ethanol, 2-butoxy-, manufacture of, by-products from

Acute oral toxicity : LD50 (Rat): 2.630 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): 3.540 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

### Components:

2,2' -Oxybisethanol

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

Acute dermal toxicity : LD50 (Rabbit): 13.300 mg/kg


### Components:

2-(2-Methoxyethoxy)ethanol

Acute oral toxicity : LD50 (Mouse): > 5.288 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

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

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#### Skin corrosion/irritation

Not classified based on available information.

##### Components:

Ethanol, 2-butoxy-, manufacture of, by-products from

Result: **Slight, transient irritation**

Remarks: **Information given is based on data obtained from similar substances.**

2,2' -Oxybisethanol

Species: **Human**

Result: **Slight, transient irritation**

2-(2-Methoxyethoxy)ethanol

Species: **Rabbit**

Method: **OECD Test Guideline 404**

Result: **No skin irritation**

#### Serious eye damage/eye irritation

Causes serious eye irritation.

##### Components:

Ethanol, 2-butoxy-, manufacture of, by-products from

Result: **Corrosive**

2,2' -Oxybisethanol

Species: **Rabbit**

Result: **Slight, transient irritation**

2-(2-Methoxyethoxy)ethanol

Species: **Rabbit**

Method: **OECD Test Guideline 405**

Result: **Slight, transient irritation**

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

##### Components:

2,2' -Oxybisethanol

Test Type: **Maximisation Test**

Species: **Guinea pig**

Method: **Directive 67/548/EEC, Annex V, B.6.**

2-(2-Methoxyethoxy)ethanol

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:

2,2' -Oxybisethanol

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

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

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

2-(2-Methoxyethoxy)ethanol

Genotoxicity in vitro : Test Type: **Ames test**  
Test species: **Salmonella typhimurium**  
Metabolic activation: **with and without metabolic activation**  
Method: **OECD Test Guideline 471**  
Result: **negative**

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**Components:**

2-(2-Methoxyethoxy)ethanol

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.

**Components:**

2,2'-Oxybisethanol

Exposure routes: **Ingestion**

Target Organs: **Kidney**

Assessment: **May cause damage to organs through prolonged or repeated exposure.**
**Aspiration toxicity**

Not classified based on available information.

**Experience with human exposure**
**Components:**

2,2'-Oxybisethanol

General Information: **Liver**

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**Further information**
**Product:**

Remarks: No data available

**SECTION 12: Ecological information**
**12.1 Toxicity**
**Components:**

Ethanol, 2-butoxy-, manufacture of, by-products from

Toxicity to fish : **LC50 (Fish): > 1.800 mg/l**  
Exposure time: 96 h  
Test Type: **semi-static test**  
Method: **OECD Test Guideline 203**  
Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): > 3.200 mg/l**  
Exposure time: 48 h  
Test Type: **static test**  
Method: **OECD Test Guideline 202**  
GLP: **yes**

Toxicity to algae : **ErC50 (Scenedesmus capricornutum (fresh water algae)):**  
**2.490 mg/l**  
Exposure time: 72 h  
Test Type: **static test**  
Method: **OECD Test Guideline 201**  
GLP: **yes**

2,2' -Oxybisethanol

Toxicity to fish : **LC50 (Fathead minnow (Pimephales promelas)): 75.210 mg/l**  
Exposure time: 96 h  
Test Type: **flow-through test**

Toxicity to daphnia and other aquatic invertebrates : **LC50 (Water flea (Daphnia magna)): > 10.000 mg/l**  
Exposure time: 24 h  
Test Type: **static test**  
Method: **DIN 38412**

2-(2-Methoxyethoxy)ethanol

Toxicity to fish : **LC50 (Pimephales promelas (fathead minnow)): 5.741 mg/l**  
Exposure time: 96 h  
Test Type: **static test**

**LC50 (Bluegill (Lepomis macrochirus)): 7.500 mg/l**

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	Exposure time: 96 h
	Method: Static
	Remarks: Mortality
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1.192 mg/l
	Exposure time: 48 h
	Test Type: static test
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l
	End point: Biomass
	Exposure time: 96 h
	Test Type: static test
	Method: OECD Test Guideline 201

**12.2 Persistence and degradability**
**Components:**

Ethanol, 2-butoxy-, manufacture of, by-products from

Biodegradability	: Result: Readily biodegradable.
	Biodegradation: 76 %
	Exposure time: 28 d

2,2' -Oxybisethanol

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

2-(2-Methoxyethoxy)ethanol

Biodegradability	: Test Type: aerobic
	Inoculum: activated sludge
	Result: Readily biodegradable.
	Biodegradation: 100 %
	Exposure time: 28 d

**12.3 Bioaccumulative potential**
**Components:**


Ethanol, 2-butoxy-, manufacture of, by-products from

Partition coefficient: n-octanol/water	: log Pow: 0,436 (25,5 °C)
	pH: 6,6

2,2' -Oxybisethanol

Bioaccumulation	: Species: Leuciscus idus (Golden orfe)
	Bioconcentration factor (BCF): 100

Partition coefficient: n-octanol/water	: log Pow: -1,47
--	------------------

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### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

#### Product:

Additional ecological information : No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : 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.
- 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.

## SECTION 14: Transport information

### SECTION 14: Transport information

#### 14.1 UN number

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

#### 14.2 UN proper shipping name


ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not dangerous goods

RID: Not dangerous goods

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#### 14.3 Transport hazard class(es)

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.4 Packing group

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.5 Environmental hazards

**ADR:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable

**RID:** Not applicable

**:** Not applicable

#### 14.6 Special precautions for user

Not applicable

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

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable


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

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : 2-(2-Methoxyethoxy)ethanol

REACH - Candidate List of Substances of Very High : Not applicable

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Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Other regulations : Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

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

TSCA : On TSCA Inventory

DSL All components of this product are on the Canadian DSL

AICS On the inventory, or in compliance with the inventory

ENCS On the inventory, or in compliance with the inventory

KECI Not in compliance with the inventory

IECSC On the inventory, or in compliance with the inventory

ISHL Not in compliance with the inventory

PICCS On the inventory, or in compliance with the inventory


**Inventories**

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

**15.2 Chemical safety assessment**

No data available



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## SECTION 16: Other information

### Further information

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### Classification procedure:

H302	Harmful if swallowed.	Expert judgement and weight of evidence determination.
H319	Causes serious eye irritation.	Calculation method
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.	Calculation method

### Full text of H-Statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
<b>H361d</b>	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.

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 SDS has been prepared by Valvoline's Environmental Health and Safety Department ('+31 (0)78 654 3500).

### Sources of key data used to compile the Safety Data Sheet

Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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.

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	Print Date: 19.10.2020
	SDS Number: 000000243736
Valvoline™ BRAKEFLUID DOT 3 BRAKE FLUID	Version: 3.0
841202	

H-statement : Hazard Statement

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

ABM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-pharse : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-pharse: Safety phrase

WGK : German Water Hazard Class