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SAFETY DATA SHEET		Revision Date: 07/31/2016
		Print Date: 9/20/2016
		SDS Number: 000000261493
Valvoline Professional Series™ DOT 3 BRAKE FLD BRAKE FLUID ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 867928		Version: 1.1

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline Professional Series™ DOT 3 BRAKE FLD
BRAKE FLUID
™ Trademark, Valvoline or its subsidiaries, regisred in various
countries

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509 United States of America SDS@valvoline.com	Emergency telephone number 1-800-VALVOLINE Regulatory Information Number 1-800-TEAMVAL Product Information 1-800-TEAMVAL
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4
Acute toxicity (Oral) : Category 4
Skin irritation : Category 2
Eye irritation : Category 2A
Specific target organ systemic toxicity - repeated exposure (Oral) : Category 2 (Kidney)

GHS Label element

Hazard pictograms :  

Signal Word : Warning

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Hazard Statements : Combustible liquid.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

Precautionary Statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/ eye protection/ face protection.
Response:
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water.
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.
If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
Store in a well-ventilated place. Keep cool.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	Eye Dam. 1; H318	70.00
DIETHYLENE GLYCOL	111-46-6	Acute Tox. 4; H302	40.00

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		STOT RE 2; H373	
ETHANOL, 2-(2-PROPOXYETHOXY)-	6881-94-3	Eye Irrit. 2A; H319	30.00
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	Eye Irrit. 2A; H319	20.00

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
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 : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Obtain medical attention.
Rinse mouth with water.
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 : Diglycol ethers may cause acidosis.
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:

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stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
pain in the abdomen and lower back
Blurred vision
lung edema (fluid buildup in the lung tissue)
acute kidney failure (sudden slowing or stopping of urine
production)
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause damage to organs through prolonged or repeated
exposure if swallowed.

Notes to physician :

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 (CO₂)
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
various hydrocarbons
Aldehydes
Ketones
Organic acids
- Specific extinguishing methods :

Product is compatible with standard fire-fighting agents.
- Further information : Use a water spray to cool fully closed containers.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.
Suppress (knock down) gases/vapours/mists with a water spray jet.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
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.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
No smoking.
Electrical installations / working materials must comply with the technological safety standards.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
DIETHYLENE GLYCOL	111-46-6	TWA	10 mg/m3	WEEL
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	TWA	10 ppm Inhalable fraction and vapor	ACGIH

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 resistant gloves (consult your safety equipment supplier).
Wear as appropriate:
impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.

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

Colour : light yellow

Odour : sweet

Odour Threshold : No data available

pH : No data available

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Melting point/range : < -58 °F / < -50 °C

Boiling point/boiling range : > 410 °F / > 210 °C

Flash point : 199 °F / 93 °C

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 : 0.09 hPa (20 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 1.05 g/cm3 (15.6 °C)

Solubility(ies)

 Water solubility : completely miscible

 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 : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous : Vapours may form explosive mixture with air.

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reactions

Conditions to avoid : Avoid heat, open flame, and prolonged storage at elevated temperatures.
excessive heat
Do not allow evaporation to dryness.

Heat, flames and sparks.

Incompatible materials : Acids
Bases
Strong oxidizing agents

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

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Assessment: The component/mixture is classified as acute oral toxicity, category 4.

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:

TRIETHYLENE GLYCOL MONOBUTYL ETHER:

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

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

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

ETHANOL, 2-(2-PROPOXYETHOXY)-:

Acute oral toxicity : LD 50 (Rat): 6,661 mg/kg

Acute inhalation toxicity : Assessment: Not classified as acutely toxic by inhalation
under GHS.

Acute dermal toxicity : LD 50 (Guinea pig): 5,048 mg/kg

DIETHYLENE GLYCOL MONOBUTYL ETHER:

Acute oral toxicity : LD 50 (Rat): 3,305 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): 2,734 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Irritating to skin

Remarks: Expected based on components.

Remarks: May cause skin irritation and/or dermatitis.

Components:

TRIETHYLENE GLYCOL MONOBUTYL ETHER:

Result: Not irritating to skin

DIETHYLENE GLYCOL:

Species: Human

Result: Slightly irritating to skin

ETHANOL, 2-(2-PROPOXYETHOXY)-:

Species: Rabbit

Result: Slightly irritating to skin

DIETHYLENE GLYCOL MONOBUTYL ETHER:

Result: Slightly irritating to skin

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Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result: Irritating to eyes

Remarks: Expected based on components.

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

TRIETHYLENE GLYCOL MONOBUTYL ETHER:

Result: Corrosive to eyes

DIETHYLENE GLYCOL:

Species: Rabbit

Result: Slightly irritating to eyes

ETHANOL, 2-(2-PROPOXYETHOXY)-:

Species: Rabbit

Result: Irritating to eyes

DIETHYLENE GLYCOL MONOBUTYL ETHER:

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:

DIETHYLENE GLYCOL:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

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

Result: Did not cause sensitisation on laboratory animals.

ETHANOL, 2-(2-PROPOXYETHOXY)-:

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

DIETHYLENE GLYCOL MONOBUTYL ETHER:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

DIETHYLENE GLYCOL:

Genotoxicity in vitro

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

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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

DIETHYLENE GLYCOL MONOBUTYL ETHER:
Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Result: In vivo tests did not show mutagenic effects

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

DIETHYLENE GLYCOL MONOBUTYL ETHER:

Effects on fertility : Symptoms: No effects on fertility

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

Components:

DIETHYLENE GLYCOL:

Exposure routes: Ingestion

Target Organs: Kidney

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

Repeated dose toxicity

Components:

DIETHYLENE GLYCOL MONOBUTYL ETHER:

NOAEL: 250 mg/kg

LOAEL: 1,000 mg/kg

Application Route: Oral

Target Organs: Blood

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

DIETHYLENE GLYCOL:

Liver

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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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

DIETHYLENE GLYCOL:

Toxicity to fish : LC 50 (Fathead minnow (Pimephales promelas)): 75,210 mg/l
Exposure time: 96 h
Test Type: 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 Type: static test
Method: DIN 38412

ETHANOL, 2-(2-PROPOXYETHOXY)-:

Toxicity to fish : LC50 (Fish): Calculated > 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Green algae): Calculated 6,514 mg/l
Exposure time: 72 h

DIETHYLENE GLYCOL MONOBUTYL ETHER:

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Toxicity to fish : LC 50 (Bluegill (Lepomis macrochirus)): 1,300 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Daphnia magna)): 2,850 mg/l
Exposure time: 24 h
Method: Static
Remarks: Mortality

EC 50 (Water flea (Daphnia magna)): > 100 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: EC 50
Exposure time: 96 h
Test Type: static test

Toxicity to bacteria : EC 50 (Bacteria): > 100 mg/l
Exposure time: 96 h
Test Type: Static

Persistence and degradability

DIETHYLENE GLYCOL:

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

ETHANOL, 2-(2-PROPOXYETHOXY)-:

Biodegradability : Result: Readily biodegradable

DIETHYLENE GLYCOL MONOBUTYL ETHER:

Biodegradability : Biodegradation: 89 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
Remarks: Readily biodegradable

Bioaccumulative potential

DIETHYLENE GLYCOL:

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

Partition coefficient: n-octanol/water : log Pow: -1.47

ETHANOL, 2-(2-PROPOXYETHOXY)-:

Partition coefficient: n-octanol/water : log Pow: -0.199

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DIETHYLENE GLYCOL MONOBUTYL ETHER:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available

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 handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

U.S. DOT - ROAD

Not dangerous goods

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CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TDG_ROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_INWT_C

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MX_DG

Not dangerous goods

*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

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

SARA 313 Component(s)

TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	70.00 %
ETHANOL, 2-(2-PROPOXYETHOXY)-	6881-94-3	30.00 %
TRIETHYLENE GLYCOL MONOETHYL ETHER	112-50-5	20.00 %
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	20.00 %

Pennsylvania Right To Know

TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	70.00 - 90.00 %
DIETHYLENE GLYCOL	111-46-6	30.00 - 50.00 %
ETHANOL, 2-(2-PROPOXYETHOXY)-	6881-94-3	30.00 - 50.00 %
TRIETHYLENE GLYCOL MONOETHYL ETHER	112-50-5	20.00 - 30.00 %
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	20.00 - 30.00 %

New Jersey Right To Know

TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	70.00 - 90.00 %
DIETHYLENE GLYCOL	111-46-6	30.00 - 50.00 %
ETHANOL, 2-(2-PROPOXYETHOXY)-	6881-94-3	30.00 - 50.00 %
TRIETHYLENE GLYCOL MONOETHYL ETHER	112-50-5	20.00 - 30.00 %
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	20.00 - 30.00 %

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:

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- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL.
- AICS : Not in compliance with the inventory
- ENCS : Not in compliance with the inventory
- KECI : Not in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory

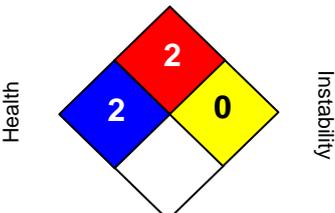
Inventories

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

SECTION 16. OTHER INFORMATION

Further information

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<p>NFPA:</p> <div style="text-align: center;"> <p>Flammability</p>  <p>Health Instability</p> <p>Special hazard.</p> </div>	<p>HMIS III:</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: blue; color: white;">HEALTH</td> <td style="text-align: center;">2*</td> </tr> <tr> <td style="background-color: red; color: white;">FLAMMABILITY</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="background-color: yellow;">PHYSICAL HAZARD</td> <td style="text-align: center;">0</td> </tr> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	HEALTH	2*	FLAMMABILITY	2	PHYSICAL HAZARD	0
HEALTH	2*						
FLAMMABILITY	2						
PHYSICAL HAZARD	0						

NFPA Flammable and Combustible Liquids Classification
Combustible Liquid Class IIIB

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

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H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Further information

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.

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 (1-800-825-8654).

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.
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

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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