

Valvoline™ SYNTHETIC DOT 3&4 BRAKE FLUID

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/02/2019

 2.0
 04/17/2019
 600000001627
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SECTION 1. IDENTIFICATION

Product name : VALVOLINE BF DOT 3&4 12/12 OZ

Product code : 601457

Manufacturer or supplier's details

Company name of supplier : Niteo Products, LLC Address : Dallas TX 75225

Email Address : EHS@niteoproducts.com

Telephone : 1-844-696-4836

Emergency telephone num: 1-800-424-9300 / 1-703-741-5970

ber

Recommended use of the chemical and restrictions on use

Recommended use : BRAKE FLUID

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

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Eye irritation : Category 2A

Specific target organ toxicity

- repeated exposure (Oral)

Category 2 (Kidney)

GHS label elements

Hazard pictograms





Signal word : Warning

Hazard statements : Causes serious eye irritation.

May cause damage to organs (Kidney) through prolonged or

repeated exposure if swallowed.

Precautionary statements : Prevention:

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling. 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

rinsina.

Get medical advice/ attention if you feel unwell. If eye irritation persists: Get medical advice/ attention.



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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.	Concentration (% w/w)
Diethylene glycol monobutyl ether	112-34-5	>= 5 - <= 10
Diethylene glycol	111-46-6	>= 3 - <= 8
Diethylene glycol monoethyl ether	111-90-0	>= 3 - <= 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

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

In case of eye contact Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Obtain medical attention.

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 Causes serious eye irritation.

delayed

May cause damage to organs through prolonged or repeated

exposure if swallowed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Carbon dioxide (CO2) High volume water jet

Unsuitable extinguishing

media

Hazardous combustion prod: :

Carbon oxides

Specific extinguishing meth-

ods

Product is compatible with standard fire-fighting agents.

Further information Use extinguishing measures that are appropriate to local cir-



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cumstances 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, protec: :

tive equipment and emergency procedures

Use personal protective equipment.

Avoid breathing dust.

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.

Prevent product from entering drains.

Do not flush into surface water or sanitary sewer system. 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.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

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

Do not smoke.

Avoid contact with skin and eyes.

Dispose of rinse water in accordance with local and national

regulations.

Container hazardous when empty.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

For personal protection see section 8.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place

Further information on stor-

age stability

No decomposition if stored and applied as directed.

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 monobutyl ether	112-34-5	TWA (Inhalable fraction and vapor)	10 ppm	ACGIH
Diethylene glycol	111-46-6	TWA	10 mg/m3	US WEEL
Diethylene glycol monoethyl ether	111-90-0	TWA	25 ppm	US WEEL

Engineering measures : Provide sufficient mechanical (general and/or local exhaust)



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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 : Wear resistant gloves (consult your safety equipment suppli-

er). The suitability for a specific workplace should be dis-

cussed with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles when there is the potential for

exposure of the eyes to liquid, vapor or mist.

Skin and body protection : Choose body protection according to the amount and con-

centration of the dangerous substance at the work place.

Wear as appropriate: Impervious clothing

Safety shoes
Hygiene measures : Handle in accordance with o

Handle in accordance with good industrial hygiene and safety

practice.

When using do not smoke. When using do not eat or drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : amber
Odour : ether-like
Odour Threshold : not determined

pH : not determined

Melting point/freezing point : not determined

Boiling point/boiling range : > 230 °C

Flash point : 203 °C

Evaporation rate : not determined

Flammability (solid, gas) : No data available

Self-ignition : not determined

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower :

flammability limit

not determined

Vapour pressure : not determined

Relative vapour density : not determined

Density : 1.06 g/cm3 (20 °C)



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Solubility(ies)

Water solubility : not determined

Partition coefficient: n-

octanol/water

: not determined

Decomposition temperature : not determined

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Molecular weight : Not applicable

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 reac- : No decomposition if stored and applied as directed.

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Hazardous polymerisation does not occur.

Conditions to avoid : No data available Incompatible materials : Strong oxidizing agents

Strong oxidizing agents
Strong acids

Hazardous decomposition

products

Strong bases
Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Eye contact Skin contact Ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

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 : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Remarks: Skin absorption of this material (or a component)

may be increased through injured skin.



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Components:

Diethylene glycol monobutyl ether:

Acute oral toxicity : LD50 (Rat): 3,305 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2,734 mg/kg

Diethylene glycol:

Acute oral toxicity : LD50 (Humans): Expected 1,120 mg/kg

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

Diethylene glycol monoethyl ether:

Acute oral toxicity : LD50 (Rat): 6,031 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): 9,143 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:

Diethylene glycol monobutyl ether:

Result: Possibly irritating to skin

Diethylene glycol:

Species: human skin

Result: Possibly irritating to skin

Diethylene glycol monoethyl ether:

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

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



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Components:

Diethylene glycol monobutyl ether:

Result: Irritating to eyes.

Diethylene glycol:

Species: Rabbit

Result: Possibly irritating to eyes

Diethylene glycol monoethyl ether:

Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Diethylene glycol monobutyl ether:

Test Type: Maximisation Test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Diethylene glycol:

Test Type: Maximisation Test

Species: Guinea pig

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

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

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

Diethylene glycol:

Genotoxicity in vitro : Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse

Method: OECD Test Guideline 474



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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.

OSHANo component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

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

Not classified based on available information.

Components:

Diethylene glycol monobutyl ether:

Effects on foetal develop: Remarks: No teratogenic effects

ment

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.

Further information

Product:

Remarks: No data available



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SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Additional ecological

information

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

federal regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated below) 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.

International Regulations

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	Calculated product RQ	
		(lbs)	(lbs)	
Diethanolamine	111-42-2	100	*	

^{*:} 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.



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SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards : Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Triethylene glycol mo- 112-50-5 >= 30 - <= 50 %

noethyl ether

Diethylene glycol mono- 112-34-5 >= 5 - <= 10 %

butyl ether

Diethylene glycol mo- >= 3 - <= 5 %

noethyl ether

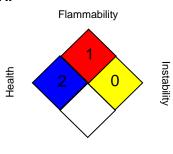
California Prop. 65

WARNING: This product can expose you to chemicals including Diethanolamine, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



Special hazard.

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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



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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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