

BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BRAKE FLUID DOT 4 - 5L

Product code : 0892 009 5

Manufacturer or supplier's details

Company : Wurth Australia Pty Ltd

Address : 2/1 Healey Road

Dandenong South, Victoria, 3175

Telephone : +61 3 8788 1111

Emergency telephone number : 1300 657 765. Advisory office in case of poisoning - National

Poisons Centre: 131 126

E-mail address : prodsafe@wuerth.com

Recommended use of the chemical and restrictions on use

Recommended use : Hydraulic fluid

Brake fluid

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Serious eye damage/eye irri-

tation

: Category 2A

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ at-



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

tention.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	
2-[2-(2-Butoxyethoxy)ethoxy]ethanol	143-22-6	>= 10 -< 20	
3,6,9,12-Tetraoxahexadecan-1-ol	1559-34-8	< 10	
Diethylene glycol	111-46-6	< 10	
Diethylene glycol methyl ether	111-77-3	< 3	
Methyl-1H-benzotriazole	29385-43-1	< 3	

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

Get medical attention.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty

of water.

Remove contaminated clothing and shoes.

Get medical attention.
Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention.

If swallowed : If swallowed, DO NOT induce vomiting.

Get medical attention.

Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

Causes serious eye irritation.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Notes to physician : Treat symptomatically and supportively.



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire-

fighting

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod- :

ucts

Carbon oxides

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Special protective equipment:

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Follow safe handling advice (see section 7) and personal pro-

tective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Avoid inhalation of vapour or mist.

Do not swallow. Do not get in eyes.

Avoid prolonged or repeated contact with skin.

Wash skin thoroughly after handling.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

sessment

Take care to prevent spills, waste and minimize release to the

environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye

flushing systems and safety showers close to the working

place.

When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

Conditions for safe storage : Keep in properly labelled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:

Strong oxidizing agents

Recommended storage tem- :

perature

10 - 30 °C

Storage period : 24 Months

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	23 ppm 100 mg/m3	AU OEL

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or expo-

sure assessment demonstrates exposures outside the rec-



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

ommended guidelines, use respiratory protection.

Filter type : Combined particulates and organic vapour type

Hand protection

Material : PVC
Break through time : > 480 min
Glove thickness : 0.4 mm
Protective index : Class 6

Material : butyl-rubber
Break through time : > 480 min
Glove thickness : 0.4 mm
Protective index : Class 6

Material : Natural Rubber
Break through time : > 480 min
Glove thickness : 0.4 mm
Protective index : Class 6

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0.4 mm
Protective index : Class 6

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:

Safety goggles

Skin and body protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear, amber

Odour : pleasant

Odour Threshold : No data available



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

pH : 7 - 10.5

Melting point/freezing point : < -50 °C

Initial boiling point and boiling

range

: > 260 °C

Flash point : > 120 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Ignitable (see flash point)

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapour pressure : < 2 hPa (20 °C)

Relative vapour density : No data available

Density : 1.030 - 1.090 g/cm³ (20 °C)

Solubility(ies)

Water solubility : completely miscible

Partition coefficient: n-

octanol/water

log Pow: < 2 (20 °C)

Auto-ignition temperature : > 300 °C

Decomposition temperature : > 300 °C

Viscosity

Viscosity, kinematic : 5 - 10 mm2/s

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- :

tions

Can react with strong oxidizing agents.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Components:

2-[2-(2-Butoxyethoxy)ethoxy]ethanol:

Acute oral toxicity : LD50 (Rat): 5,170 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3,540 mg/kg

3,6,9,12-Tetraoxahexadecan-1-ol:

Acute oral toxicity : LD50 (Rat): 2,630 mg/kg

Remarks: Based on data from similar materials

Diethylene glycol:

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

Method: Expert judgement

Diethylene glycol methyl ether:

Acute oral toxicity : LD50 (Rat): 7,128 mg/kg

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



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

Methyl-1H-benzotriazole:

Acute oral toxicity : LD50 (Rat): 720 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Method: OECD Test Guideline 402

Remarks: Based on data from similar materials

Skin corrosion/irritation

Not classified based on available information.

Components:

2-[2-(2-Butoxyethoxy)ethoxy]ethanol:

Species : Rabbit

Result : No skin irritation

3,6,9,12-Tetraoxahexadecan-1-ol:

Species : Rabbit

Result : No skin irritation

Diethylene glycol:

Species : Rabbit

Result : No skin irritation

Diethylene glycol methyl ether:

Species : Rabbit

Result : No skin irritation

Methyl-1H-benzotriazole:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

2-[2-(2-Butoxyethoxy)ethoxy]ethanol:

Species : Rabbit

Result : Irreversible effects on the eye Method : OECD Test Guideline 405

Remarks : Based on data from similar materials

3,6,9,12-Tetraoxahexadecan-1-ol:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Method : OECD Test Guideline 405



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

Diethylene glycol:

Species : Rabbit

Result : No eye irritation

Diethylene glycol methyl ether:

Species : Rabbit

Result : No eye irritation

Methyl-1H-benzotriazole:

Species : Rabbit

Result : No eye irritation

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:

2-[2-(2-Butoxyethoxy)ethoxy]ethanol:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : negative

Remarks : Based on data from similar materials

3,6,9,12-Tetraoxahexadecan-1-ol:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : negative

Remarks : Based on data from similar materials

Diethylene glycol:

Test Type : Maximisation Test Exposure routes : Skin contact Species : Guinea pig

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

Result : negative

Diethylene glycol methyl ether:

Test Type : Maximisation Test Exposure routes : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : negative



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

Methyl-1H-benzotriazole:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig

Method : OECD Test Guideline 406

Result : negative

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

2-[2-(2-Butoxyethoxy)ethoxy]ethanol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

3,6,9,12-Tetraoxahexadecan-1-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

Diethylene glycol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

Test Type: In vitro sister chromatid exchange assay in mam-

malian cells Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection Method: OECD Test Guideline 474

Result: negative

Diethylene glycol methyl ether:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Methyl-1H-benzotriazole:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Ingestion Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Diethylene glycol:

Species : Rat
Application Route : Ingestion
Exposure time : 108 weeks
Result : negative

Reproductive toxicity

Not classified based on available information.

Components:

2-[2-(2-Butoxyethoxy)ethoxy]ethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Diethylene glycol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rabbit

Application Route: Ingestion Method: OECD Test Guideline 414

Result: negative



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

Diethylene glycol methyl ether:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 416

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: positive

Remarks: Based on data from similar materials

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on development, based on

animal experiments.

Methyl-1H-benzotriazole:

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 414

Result: positive

Reproductive toxicity - As-

sessment

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.

Repeated dose toxicity

Components:

2-[2-(2-Butoxyethoxy)ethoxy]ethanol:

Species : Rat
NOAEL : 250 mg/kg
Application Route : Ingestion
Exposure time : 90 Days

Method : OECD Test Guideline 408

Remarks : Based on data from similar materials

Diethylene glycol:

Species : Rat

NOAEL : 300 mg/kg Application Route : Ingestion Exposure time : 98 Days

Species : Dog

NOAEL : 2,220 mg/kg



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

Application Route : Skin contact Exposure time : 4 Weeks

Method : OECD Test Guideline 410

Remarks : Based on data from similar materials

Diethylene glycol methyl ether:

Species : Rat
NOAEL : 900 mg/kg
Application Route : Ingestion
Exposure time : 6 Weeks

Methyl-1H-benzotriazole:

Species : Rat

NOAEL : 150 mg/kg LOAEL : 450 mg/kg Application Route : Ingestion Exposure time : 28 Days

Method : OECD Test Guideline 407

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-[2-(2-Butoxyethoxy)ethoxy]ethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 2,200 - 4,600 mg/l

Exposure time: 96 h Method: DIN 38412

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2,210 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): > 612.6

mg/l

Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)): 612.6 mg/l

Exposure time: 72 h

Toxicity to microorganisms : EC10: > 1,995 mg/l

Exposure time: 30 min

3,6,9,12-Tetraoxahexadecan-1-ol:

Toxicity to daphnia and other :

EC50 (Daphnia magna (Water flea)): > 100 mg/l

aquatic invertebrates Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

Toxicity to algae/aquatic

plants

: ErC50 (Scenedesmus capricornutum (fresh water algae)): >

100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Diethylene glycol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 75,200 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h Method: DIN 38412

Toxicity to algae/aguatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): > 1

mq/l

Exposure time: 72 h

Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): > 1 mg/l

Exposure time: 7 d

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): > 1 mg/l

Exposure time: 21 d

Remarks: Based on data from similar materials

Diethylene glycol methyl ether:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 5,741 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1,192 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): >

1,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50: > 1,000 mg/l

Exposure time: 30 min

Method: OECD Test Guideline 209

Methyl-1H-benzotriazole:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 55 mg/l

Exposure time: 96 h



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Acartia tonsa): 55 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

NOEC (Skeletonema costatum (marine diatom)): 30 mg/l

Exposure time: 72 h

ErC50 (Skeletonema costatum (marine diatom)): 53 mg/l

Exposure time: 72 h

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

EC10 (Daphnia galeata (water flea)): > 0.1 - 1 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

Persistence and degradability

Components:

2-[2-(2-Butoxyethoxy)ethoxy]ethanol:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 85 % Exposure time: 28 d

Method: OECD Test Guideline 301D

3,6,9,12-Tetraoxahexadecan-1-ol:

Biodegradability : Result: Readily biodegradable.

Remarks: Based on data from similar materials

Diethylene glycol:

Biodegradability : Result: Readily biodegradable.

Diethylene glycol methyl ether:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 100 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Methyl-1H-benzotriazole:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 4 % Exposure time: 28 d

Method: Directive 67/548/EEC Annex V, C.4.D.

Bioaccumulative potential

Components:

2-[2-(2-Butoxyethoxy)ethoxy]ethanol:

Partition coefficient: n-

: log Pow: 0.51

octanol/water



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

3,6,9,12-Tetraoxahexadecan-1-ol:

Partition coefficient: n-

octanol/water

log Pow: 0.25

Diethylene glycol:

Partition coefficient: n- : log Pow: -1.98

octanol/water Remarks: Calculation

Diethylene glycol methyl ether:

Partition coefficient: n-

octanol/water

log Pow: -0.47

Methyl-1H-benzotriazole:

Partition coefficient: n- : log Pow: 1.081

octanol/water Method: OECD Test Guideline 117

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable

IATA-DGR

UN/ID No. : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Packing instruction (cargo : Not applicable



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

aircraft)

Packing instruction (passen- : Not applicable

ger aircraft)

IMDG-Code

UN number Not applicable Proper shipping name Not applicable Not applicable Class Not applicable Subsidiary risk Not applicable Packing group Not applicable Labels EmS Code Not applicable Marine pollutant Not applicable

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

Not applicable for product as supplied.

National Regulations

ADG

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Hazchem Code : Not applicable

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mix-

ture

Standard for the Uniform Scheduling of Medicines and

: Schedule 6

Poisons

Prohibition/Licensing Requirements : There is no applicable prohibition,

authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regula-

tions.

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: < 5.3 g/l

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

AIIC : All ingredients listed or exempt.



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

SECTION 16. OTHER INFORMATION

Further information

Revision Date : 21.09.2021

Sources of key data used to

compile the Safety Data

Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

Full text of other abbreviations

AU OEL : Australia. Workplace Exposure Standards for Airborne Con-

taminants.

AU OEL / TWA : Exposure standard - time weighted average

AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships: n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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 is designed only as a guidance for



BRAKE FLUID DOT 4 - 5L

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.11.2020

 2.0
 21.09.2021
 4564582-00004
 Date of first issue: 27.06.2019

safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

AU / EN