

### **SAFETY DATA SHEET**

# NAPA Brake Fluid DOT 4: Grades with Boiling Points < 260°C

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

### 1.1. Product identifier

Trade name

NAPA Brake Fluid DOT4: Grades with Boiling Points < 260°C

Product no. NBF3500 – 500ML NBF3001 – 1 Litre NBF3005 – 5 Litre

### 1.2. Relevantidentifiedusesofthesubstanceormixtureandusesadvisedagainst Relevantidentified uses of

the substance or mixture

Hydraulic fluid

Relevant identified uses of the substance or mixture (REACH) No special

Uses advised against No

special

### 1.3. Details of the supplier of the safety datasheet Company and

address

NAPA

2, Eskan Court,

Campbell Park

Milton Keynes

MK9 4AN

Technical Helpline - +44 (0) 3333 136 597

Date: 13.11.20 SDS Version 3.0

Dateofprevious version 2020-

07-08(2.0)

#### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

### **SECTION 2: Hazards identification**

# ▼2.1. Classification of the substance ormixture

Eye Irrit. 2; H319, Causes serious eye irritation.

Repr.2;H361d,Suspectedofdamaging the unborn child.

 ${\it Classification} may be based on test results obtained on the final\ product\ rather\ than\ calculation$ 

**2.2.** Label elements Hazard pictogram(s)







### Signal word

Warning

### ▼ Hazard statement(s)

Causes serious eye irritation.

Suspected of damaging the unborn child.

# Safety statement(s)

#### General

P101,Ifmedicaladviceisneeded,haveproductcontainerorlabelathand. P102, Keep out of reach of

### Prevention

P264, Wash hands/exposed areas thoroughly after handling.

### **▼** Response

P301+P310, IF SWALLOWED: Immediately call a POISON CENTER/doctor. P337+P313, If eye irritation persists: Get medical advice/attention.

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

### Storage

# Disposal

P501, Dispose of contents/container to an approved waste disposal plant.

#### **▼**Hazardous substances

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

#### 2.3. Other hazards

Additional labelling

Not applicable

### Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

Product is not classified as combustible but will burn.

# **SECTION 3: Composition/information on ingredients**

# ▼3.2 Mixtures



	IndexNo.:603-140-00-			
	6			
Tris[2-[2-(2-	CAS No.: 30989-05-0	5-20%	Repr. 2,H361d	
methoxyethoxy)ethoxy]ethyl] orthoborate				
or thoborate	EC No.: 250-418-4			
	REACH No.: 01-			
	2119462824-33-XXXX			
	Index No.:			
ButylPolyglycol	CAS No.: 9004-77-7 EC	5-10%	Eye Irrit. 2, H319 (SCL: 20.00 %)	
	No.:500-012-0			
	REACH No.: 01-			
	2119475115-41-XXXX			
	Index No.:			
2 /2  -  -  -  -  -  -  -  -  -  -  -  -  -		0-2.99%	Eyelrrit.2,H319	Annex
2-(2-butoxyethoxy)ethanol;	CAS No.: 112-34-5	0-2.33%	Lyennt.z,nsis	XVII, EU
	EC No.: 203-961-6			
	REACH No.: 01-			
	2119475104-44-XXXX			
	IndexNo.:603-096-00-			
	8			
2-(2-methoxyethoxy)ethanol;		0-2.99%	Repr.2,H361d	Annex
2-(2-methoxyethoxy)ethanoi,	CAS No.: 111-77-3			XVII, EU
	EC No.: 203-906-6			
	REACH No.: 01-			
	2119475100-52-XXXX			
	IndexNo.:603-107-00-			

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

EU: European occupational exposure limit

Annex XVII: The chemical substance is subject to REACH restrictions, REACH annex XVII.

# **SECTION 4: First aid measures**

# **4.1.** Description of first aid measures General

# information

 $In the case of accident: Contact a doctor or casualty department-take the label or this safety data sheet. \ Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.$ 

# Inhalation

 $Upon breathing difficulties or irritation of the respiratory tract: Bring the person into freshair and stay with \ him/her.$ 

Ifrecoveryisnotrapid, seek medical attention Skin contact

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the above the contaminated clothing and shoes are the contaminated clothing are the contaminated clothing and the contaminated clothing are the contaminated clothing and the contaminated clothing are the clothing are the



material, is washed thoroughly with water and so ap. Skinclean ser can be used. DONOT uses olvents or thinners.

#### Eye contact

Removecontactlenses. Flusheyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

### Ingestion

Provide plenty of water for the person to drink and stay with him/her. Seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid in halation of or choking on vomited material. If medical attention is delayed, give a dults 90-120 ml hard liquor such as 40% v/vspirits. Give children proportion at ely less at a rate of 2 ml/kg body weight.

#### Burns

Not applicable

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

The most important symptoms are described in sections 2 and 11.

 $Irritation \, effects: This \, product \, contains \, substances, \, which \, may \, cause \, irritation \, upon \, exposure \, to \, skin, \, eyes \, or \, lungs. \, Exposure \, may result in an increased \, absorption potential of other hazardous substances at the area of \, exposure.$ 

### **4.3.** Indication of any immediate medical attention and special treatment needed IF exposed orconcerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

Treat symptomatically. There is no specific antidote. Due to the Diethylene Glycol content, treatment as for Ethylene Glycol poisoning may help.

### **SECTION 5: Firefighting measures**

#### **5.1.** Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire. However they may be used to cool adjacent containers.

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

Fire will result in denses moke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and near by surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are: Carbon oxides (CO / COD).

#### **5.3.** Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contactTheNationalPoisons InformationService(dial111.24hservice)inordertoobtainfurtheradvice.

### **SECTION 6: Accidental release measures**

### **6.1.** Personal precautions, protective equipment and emergency procedures Avoid direct contact

with spilled substances.

Avoid inhalation of vapours from spilled material.

Preventun necessary personnel entering area of spillage. When cleaning uplar gespills appropriate protective clothing should be worn-see section 8.

### **6.2.** Environmental precautions

A void discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

# **6.3.** Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the accordance with the contraction of the contracti



regulations on dangerous waste.

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### **6.4.** Reference to other sections

See section on "Disposal considerations" in regard of handling of waste.

See section on 'Exposure controls/personal protection' for protective measures.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safehandling

 $A void any method of handling that generates mist so rae rosols. \ Do note at, drink or smoke when handling this product.$ 

See section on 'Exposure controls/personal protection' for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### Storage temperature

Room temperature 15 to 30°C

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

Users are referred to the specification SAE J1707 "Service maintenance of brake fluids".

### **SECTION 8: Exposure controls/personal protection**

#### **8.1.** Control parameters

2,2' -oxybisethanol;

 $Long term exposure limit (8 hours): 23 ppm\ Long term$ 

exposure limit (8 hours): 101 mg/m³

2-(2-butoxyethoxy)ethanol;

Longtermexposurelimit(8hours):10ppm Longterm

exposure limit (8 hours): 67,5 mg/m³ Shorttermexposure limit

(15 minutes):15 ppm

Short term exposure limit (15 minutes): 101,2 mg/m<sup>3</sup>

2-(2-methoxyethoxy)ethanol;

Longtermexposurelimit(8hours):10ppm Longtermexposure

limit (8hours): 50,1 mg/m³ Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020)

### DNEL

Product/Ingredient name	DNEL	Routeofexposure	Duration
ButylTriglycol	50mg/kgBW/day	Dermal	Longterm–Systemic effects-Workers
ButylTriglycol	195mg/m3	Inhalation	Longterm–Systemic effects-Workers
2,2'-oxybisethanol;	106mg/kgBW/Day	Dermal	Longterm-Systemic



				effects - Workers
	2,2'-oxybisethanol;	60mg/m3	Inhalation	Longterm-Systemic
				effects - Workers
	Tris[2-[2-(2-	8.3 mg/kgBW/day	Dermal	Longterm-Systemic effects-Workers
	methoxyethoxy]ethoxy]ethyl] orthoborate			circus workers
	Tris[2-[2-(2-	29.1mg/m3	Inhalation	Longterm-Systemic
	methoxyethoxy)ethoxy]ethyl] orthoborate			effects-Workers
	of thobotate			
	2-(2-butoxyethoxy)ethanol;	20mg/kgBW/day	Dermal	Longterm–Systemic
	_ (			effects - Workers
	2-(2-butoxyethoxy)ethanol;	67mg/m3	Inhalation	Longterm-Systemic
				effects - Workers
	2-(2-methoxyethoxy)ethanol;	0.53mg/kgBW/day	Dermal	Longterm–Systemic effects - Workers
		504 / 0		
	2-(2-methoxyethoxy)ethanol;	50.1mg/m3	Inhalation	Longterm–Systemic effects - Workers
PNEC				
	Product/Ingredient name	PNEC	Routeofexposure	Duration of Exposure Butyl
	Triglycol	5mg/L	Water	Single
	ButylTriglycol	200mg/L	SewageTreatmentPlant	Continuous
	2,2'-oxybisethanol;	10mg/L	Water	Single
	2,2'-oxybisethanol;	199.5mg/L	SewageTreatmentPlant	Continuous
	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	2.112mg/l	Water	Single
	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate			
		100mg/l	SewageTreatmentPlant	Continuous
	2-(2-butoxyethoxy)ethanol;	3.9mg/L	Water	Single
	2-(2-butoxyethoxy)ethanol;	200mg/L	SewageTreatmentPlant	Continuous 2-
	(2-methoxyethoxy)ethanol;	12mg/L	Water	Single
	2-(2-methoxyethoxy)ethanol;	10000mg/L	SewageTreatmentPlant	Nodataavailable

### **8.2.** Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

# General recommendations

Donoteat, drinkorsmokeintheworkplace Exposure

### scenarios

There are no exposure scenarios implemented for this product.

# **Exposure limits**

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

# Appropriate technical measures

A irborneva pour and mist concentrations must be kept at a minimum and below current limit values (see above). In stallation of a Local exhaust system if normal air flow in the work room is not sufficient is recommended.

Ensure emergency eyewash and -showers are clearly marked.



# Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, for earms and face.

# Measures to avoid environmental exposure

Keep spill absorbent materials available in the workplace. If possible, clean up any spills immediately.

Individual protection measures, such as personal protective equipment Generally

Use only CE marked protective equipment.

### **Respiratory Equipment**

No specific requirements Skin

protection

No specific requirements Hand

### protection

Worksituation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
	Butyl	0.3	> 480	EN374-2, EN374-3, EN388
	Nitrile	0.2	> 480	EN374-2, EN374-3, EN388

### Eye protection

Worksituation	Recommended	Standards	
	Wearsafetyglasses with side shields.	EN166	

# **SECTION 9: Physical and chemical properties**

### **9.1.** Information on basic physical and chemical properties Form

Liquid

Colour

Amber

Odour

Mild

# Odour threshold (ppm)

Testing not relevant or not possible due to nature of the product.

рΗ

7-10.5

Density (g/cm³)

1.01-1.06

Viscosity

5-10 centistokes (20.00 °C) Phase

changes

Melting point (°C)

< -50

Boiling point (°C)

>210 °C

Vapour pressure

1.00 millibar



Vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C) 300

Evaporation rate (n-butylacetate = 100) 0.01

Dataonfireandexplosionhazards Flash point

(°C)

>100 °C

Ignition (°C)

>280 °C

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Explosion limits (% v/v)

Testing not relevant or not possible due to nature of the product.

**Explosive properties** 

Testing not relevant or not possible due to nature of the product.

Oxidizing properties

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water Soluble

n-octanol/water coefficient 1.50

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

# **SECTION 10: Stability and reactivity**

### ▼10.1. Reactivity

No hazardous reactions if stored and handled as indicated.

10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

- **10.3.** Possibility of hazardous reactions No special
- 10.4. Conditions to avoid No

special

**10.5.** Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6.** Hazardous decomposition products

The product is not degraded when used as specified in section 1.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects Acute toxicity

Based on available data, the classification criteria are not met.

 $Oral-Based \ on \ read\ across\ data\ toxicity\ is\ low\ (LD\ 50\ Rat>5000\ mg/kg).\ Sparse\ experience\ indicates\ toxicity\ in\ man\ could\ begreater.$ 

Inhalation - Not applicable due to low vapour pressure of product.

Dermal - Based on read across data toxicity is low (LD 50 Rabbit >3000 mg/kg.

General-Although acute toxicity of this product is low, if significant amounts are absorbed there is a risk of renal damage which could lead to kidney failure or even death. Other symptoms of overexposure include Central Nervous System effects, abdominal discomfort, metabolic acidos is and headache or nausea.



#### Skin corrosion/irritation

Basedonavailabledata, the classification criteria are not met. However, repeated contact may

de-fat the skin and cause dermatitis.

#### Serious eye damage/irritation Causes

serious eyeirritation.

# Respiratory or skinsensitisation

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Suspected of damaging the unborn child.

### STOT-single exposure

Based on available data, the classification criteria are not met.

#### ▼STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Long term effects

Reproductivetoxicity:Thisproductcontainsteratogenicsubstances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

### Other information No

special

### **SECTION 12: Ecological information**

# **12.1.** Toxicity

Product is of low ecotoxicity

Fish 96h LC50 >100mg/I (Oncorhynchus Mykiss)

Daphnia 48 h EC50 Not determined but expected to be virtually non-toxic Algae 72 h EC50 Not and the property of the property

 $determined \, but \, expected \, to \, be \, virtually non-toxic$ 

# 12.2. Persistence and degradability

Product is inherently biodegrad able and is expected to be readily biodegrad able based on ingredients (OECD~302B).

If admitted into adapted biological water treatment plants no adverse effects of the degrading action of the live sludge are expected and the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the live sludge are expected as the degrading action of the degrading acti

#### **12.3.** Bioaccumulative potential

Not expected to Bio-accumulate. Log POW for all main ingredients <2.0

### **12.4.** Mobility insoil

Product is soluble in water and will be mobile in soil until degraded. Volatilisation from water to air not expected.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### 12.6. Other adverse effects No

special

#### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.



Dispose of in accord with local and national regulations. Recycling or controlled incineration with energy recovery are recommended.

EWC code

16 01 13\* Brake fluids

Specificlabelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

# **SECTION 14: Transport information**

#### 14.1 - 14.4

 $Not dangerous goods according to ADR, IATA and IMDG.\ ADR/RID$ 

Not applicable

**IMDG** 

Not applicable Not

IATA

applicable

#### "MARINE POLLUTANT"

No

14.5. Environmental hazards Not

applicable

**14.6.** Special precautions foruser Not

applicable

**14.7.** Transport in bulk according to Annex II of Marpol and the IBCCode No data available

# **SECTION 15: Regulatory information**

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

### ▼ Restrictions for application

Pregnant women and women breast feeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education No

specific requirements

SEVESO - Categories / dangerous substances Not applicable

Additional information Tactile

warning.

#### Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

CouncilDirective92/85/EEContheintroductionofmeasurestoencourageimprovementsinthesafetyand healthatworkofpregnantworkersand workerswhohaverecentlygivenbirthorarebreastfeeding.

Regulation(EC)No1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

Regulation (EC) 1907/2006 (REACH).

15.2. Chemical safetyassessment No

# **SECTION 16: Other information**

▼ Full text of H-phrases as mentioned in section 3



H318, Causes serious eye damage. H302,

Harmful if swallowed.

H361d, Suspected of damaging the unbornchild. H319, Causes

serious eye irritation.

#### Abbreviations and acronyms

 $ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway\ ADR = The European Agreement\ concerning the International Carriage of Dangerous\ Goods by Road$ 

ATE = Acute Toxicity Estimate BCF =

Bioconcentration Factor CAS=Chemical

Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety

Assessment

CSR = Chemical Safety Report

DMEL=DerivedMinimalEffectLevel DNEL=

 ${\sf DerivedNoEffectLevel}$ 

EINECS = European Inventory of Existing Commercial chemical Substances ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement EWC =

European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals IARC = International Agency for

Research on Cancer (IARC)

IATA = International Air Transport Association IBC =

Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL=International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD=OrganisationforEconomicCo-operationandDevelopment PBT=Persistent,

Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

 $RID=The Regulations concerning the International Carriage of Dangerous Goods \ by Rail\ RRN=REACH\ Registration$ 

Number

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE=Specific

 $TargetOrganToxicity-SingleExposure\ TWA=Time\ weighted\ average$ 

UN = United Nations

UVCB = Complex hydrocarbon substance VOC =

Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative Additional

#### information

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No.

1272/2008 (CLP)

The classification of the mixture is based on test data.

 $The information contained here in is based on the present knowledge and experience of NAPA. \ It in no way constitutes the users own assessment of work place risk as required by other Health and Safety legislation.$ 

NAPA does not, by supplying this information, guarantee or warrant any specific properties or qualities of goods supplied. It is the responsibility of the purchaser to determine whether the goods or dered are fit for any purpose for which they may be required.

 $This information is provided subject to NAPA's Conditions of Sale, and in particular\ Conditions\ 9\ and\ 14\ thereof.$ 

This data sheet is available in other European Languages.



Data sheets for other areas of the Globe may be available on request.

Thesafetydatasheetisvalidatedby Steve Jay

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety datas he et applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.