

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Boost Oil Brake Fluid DOT 4+

Revision date: 10.02.2020

Product code: MIT0039

Page 1 of 9

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

1.1. Product identifier

Boost Oil Brake Fluid DOT 4+

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

Use of the substance/mixture

brake fluids

Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Company name: Boost Oil Lubricants
Street: Auf dem Texas 11
Place: D-28857 Syke
Telephone: 0049/4242160391

Telefax: 0049/4242160392

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Reproductive toxicity: Repr. 2
Hazard Statements:
Suspected of damaging the unborn child.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

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

Signal word: Warning

Pictograms:



Hazard statements

H361d Suspected of damaging the unborn child.

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container to authorized waste disposal facility.

2.3. Other hazards

No information available.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment

SECTION 3: Composition/information on ingredients

3.2. Mixtures

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Boost Oil Brake Fluid DOT 4+

Revision date: 10.02.2020

Product code: MIT0039

Page 2 of 9

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate			>=50 - <70 %
	250-418-4		01-2119462824-33	
	Repr. 2; H361d			
111-46-6	2,2'-oxybisethanol; diethylene glycol			>= 1 - < 10 %
	203-872-2	603-140-00-6		
	Acute Tox. 4; H302			
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine			>= 1 - < 10 %
	203-820-9	603-083-00-7		
	Eye Irrit. 2; H319			
68442-68-2	Benzenamine, N-phenyl-, styrenated			>=0,1- <0,25 %
	270-485-3			
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Take off immediately all contaminated clothing. Get medical advice/attention if you feel unwell.

After inhalation

Provide fresh air.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious.

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

May cause an allergic skin reaction. Conjunctival redness.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

Water spray jet, Extinguishing powder, Carbon dioxide (CO₂), alcohol resistant foam**Unsuitable extinguishing media**

High power water jet.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Boost Oil Brake Fluid DOT 4+

Revision date: 10.02.2020

Product code: MIT0039

Page 3 of 9

5.2. Special hazards arising from the substance or mixture

Non-flammable.

Heating causes rise in pressure with risk of bursting.

In case of fire may be liberated: Carbon monoxide Nitrogen oxides (NOx),

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

Evacuate area.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Contain contaminated water/firefighting water

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from combustible material.

Further information on handling

Take precautionary measures against static discharges.

Wash hands before breaks and after work.

When using do not eat, drink or smoke.

Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agent, Base, Strong acid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Further information on storage conditions

No special measures are necessary.

according to Regulation (EC) No 1907/2006

Boost Oil Brake Fluid DOT 4+

Revision date: 10.02.2020

Product code: MIT0039

Page 4 of 9

7.3. Specific end use(s)

brake fluids

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
111-46-6	2,2'-Oxydiethanol	23	101		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate			
Worker DNEL, long-term		inhalation		29,1 mg/m ³
Consumer DNEL, long-term		inhalation		7,2 mg/m ³
Worker DNEL, long-term		dermal		8,3 mg/kg bw/day
Consumer DNEL, long-term		oral		4,1 mg/kg bw/day
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine			
Worker DNEL, long-term		dermal	systemic	12,5 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	16 mg/m ³
Consumer DNEL, long-term		dermal	systemic	6,3 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	3,9 mg/m ³
Consumer DNEL, long-term		oral	systemic	1,3 mg/kg bw/day

PNEC values

CAS No	Substance	Value
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine	
Freshwater		0,2777 mg/l
Freshwater sediment		2,33 mg/kg
Marine sediment		0,233 mg/kg
Soil		0,303 mg/kg

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Boost Oil Brake Fluid DOT 4+

Revision date: 10.02.2020

Product code: MIT0039

Page 5 of 9

Eye/face protection

Wear eye protection/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. DIN EN 374

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Full-/half-/quarter-face masks (DIN EN 136/140) Particle filter device (DIN EN 143), The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	amber	
Odour:	characteristic	
		Test method
pH-Value (at 20 °C):		7
Changes in the physical state		
Melting point:	<-70 °C	DIN 51583
Initial boiling point and boiling range:	>260 °C	
Pour point:	not determined	
Flash point:	134 °C	
Flammability		
Solid:	not applicable	
Gas:	not applicable	
Explosive properties		
not explosive according to EU A.14		
Lower explosion limits:	1,5 vol. %	
Upper explosion limits:	not determined	
Auto-ignition temperature		
Solid:	not applicable	
Gas:	not applicable	
Decomposition temperature:	360 °C	
Oxidizing properties		
Not oxidising.		
Vapour pressure: (at 20 °C)	< 1 hPa	
Density (at 20 °C):	1,065-1,085 g/cm ³	DIN 51757
Bulk density:	not applicable	



Safety Data Sheet

Boost Oil Lubricants

according to Regulation (EC) No 1907/2006

Boost Oil Brake Fluid DOT 4+

Revision date: 10.02.2020

Product code: MIT0039

Page 6 of 9

Water solubility: easily soluble
(at 20 °C)

Solubility in other solvents
not determined

Partition coefficient: not determined

Viscosity / kinematic: 15-17 mm²/s
(at 20 °C)

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

No known hazardous reactions.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
111-46-6	2,2'-oxybisethanol; diethylene glycol				
	oral	ATE 500 mg/kg			
	dermal	LD50 11890 mg/kg	Rabbit		
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine				
	oral	LD50 >2000 mg/kg	Rat	OECD 401	
	dermal	LD50 8000 mg/kg	Rabbit		

Irritation and corrosivity

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

Sensitising effects

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



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Boost Oil Brake Fluid DOT 4+

Revision date: 10.02.2020

Product code: MIT0039

Page 7 of 9

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.

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.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate					
	Acute fish toxicity	LC50 mg/l	222,2	96 h		
	Acute crustacea toxicity	EC50 mg/l	211,2	48 h		
	Algea toxicity	NOEC mg/l	224,4	3 d		
111-46-6	2,2'-oxybisethanol; diethylene glycol					
	Acute fish toxicity	LC50 mg/l	> 32000	96 h	Gambusia affinis	
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine					
	Acute fish toxicity	LC50 mg/l	1466	96 h	Brachydanio rerio (zebra-fish)	OECD 203
	Acute crustacea toxicity	EC50 mg/l	277,7	48 h	Daphnia magna (Big water flea)	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-46-6	2,2'-oxybisethanol; diethylene glycol	-1,98 (25°C)
110-97-4	1,1'-iminodipropan-2-ol; di-isopropanolamine	-0,82

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Boost Oil Brake Fluid DOT 4+

Revision date: 10.02.2020

Product code: MIT0039

Page 8 of 9

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC):	69,99 % (745,394 g/l)
2004/42/EC (VOC):	19,98 % (212,787 g/l)

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Boost Oil Brake Fluid DOT 4+

Revision date: 10.02.2020

Product code: MIT0039

Page 9 of 9

Information according to 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**This data sheet contains changes from the previous version in section(s):
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Repr. 2; H361d	Calculation method

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)