

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Boost Oil Brake Fluid DOT4

Revision date: 20.03.2020

Product code: MIT0044

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

1.1. Product identifier

Boost Oil Brake Fluid DOT4

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 information 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.

Special labelling of certain mixtures

EUH208 Contains Dihydro-3- (tetrapropenyl) furan-2,5-dione. May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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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 | | | < 30 % |
| | 250-418-4 | | 01-2119462824-33 | |
| | Repr. 2; H361d | | | |
| 143-22-6 | 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol | | | < 10 % |
| | 205-592-6 | 603-183-00-0 | | |
| | Eye Dam. 1; H318 | | | |
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol | | | < 10 % |
| | 203-872-2 | 603-140-00-6 | | |
| | Acute Tox. 4; H302 | | | |
| 111-77-3 | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether | | | < 3 % |
| | 203-906-6 | 603-107-00-6 | | |
| | Repr. 2; H361d *** | | | |
| 26544-38-7 | Dihydro-3- (tetrapropenyl) furan-2,5-dione | | | < 0,1 % |
| | 247-781-6 | | 01-2119979080-37 | |
| | Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 4; H319 H317 H413 | | | |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice.

Use personal protection equipment.

Never give anything by mouth to an unconscious person or a person with cramps.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. Remove casualty to fresh air and keep warm and at rest.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. 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. Consult an ophthalmologist. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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. Medical treatment necessary. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

The following symptoms may occur: Allergic reactions, Unconsciousness, Conjunctival redness.

May cause drowsiness or dizziness.

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

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Treat symptomatically.

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

Co-ordinate fire-fighting measures to the fire surroundings. Dry extinguishing powder (Extinguishing powder), Carbon dioxide (CO₂), alcohol resistant foam, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable. Carbon monoxide, Carbon dioxide (CO₂), Ketone, aldehydes
Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Use personal protection equipment.
In case of fire: Evacuate area. Use water spray jet to protect personnel and to cool endangered containers.

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.

Protective clothing

Keep people at a distance and stay on the windward side.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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. Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

When using do not eat, drink or smoke.

Use protective skin cream before handling the product.

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

7.2. Conditions for safe storage, including any incompatibilities

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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 exhaustion at critical locations. Keep container tightly closed in a cool, well-ventilated place. Handle and open container with care.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidising agent, Strong acid

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

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 |
| 111-77-3 | 2-(2-Methoxyethoxy)ethanol | 10 | 50.1 | | 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 |
| 111-77-3 | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether | | | |
| Worker DNEL, long-term | | dermal | systemic | 0,53 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 50,1 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,27 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 25 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 1,5 mg/kg bw/day |

Additional advice on limit values

Personal air monitoring, Room air monitoring

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.

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Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

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.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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

| | |
|--|------------------------|
| Physical state: | Liquid |
| Colour: | colourless, amber |
| Odour: | characteristic |
| pH-Value: | 7 - < 11,5 |
| Changes in the physical state | |
| Melting point: | < -50 °C |
| Initial boiling point and boiling range: | >230 °C |
| Auto-ignition temperature: | > 300 °C |
| Flash point: | > 100 °C |
| Sustaining combustion: | No data available |
| Flammability | |
| Solid: | not applicable |
| Gas: | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Auto-ignition temperature | |
| Solid: | not applicable |
| Gas: | not applicable |
| Decomposition temperature: | >300 °C |
| Oxidizing properties | |
| Not oxidising. | |
| Vapour pressure: | not determined |
| Density (at 20 °C): | 1,07 g/cm ³ |
| Bulk density: | not applicable |
| Water solubility: | easily soluble |
| Solubility in other solvents | |
| not determined | |
| Partition coefficient: | not determined |
| Viscosity / dynamic: | not determined |

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| | |
|--------------------------------------|-------------------------|
| Viscosity / kinematic: (at 20 °C) | 5-10 mm ² /s |
| 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

Stable under normal conditions.

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

Acids, Oxidising agent, strong

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 | | |
| 111-77-3 | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether | | | | |
| | oral | LD50 ca. 6500 mg/kg | Rat | | |
| | dermal | LD50 ca. 6450 mg/kg | Rabbit | | |
| | inhalation (1 h) vapour | LC50 > 200 mg/l | Rat | | |
| 26544-38-7 | Dihydro-3- (tetrapropenyl) furan-2,5-dione | | | | |
| | oral | LD50 2900 mg/kg | Rat | | |
| | dermal | LD50 >2000 mg/kg | Rat | | |
| | inhalation (4 h) aerosol | LC50 5,3 mg/l | Rat | | |



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Irritation and corrosivity

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

Sensitising effects

Contains Dihydro-3- (tetrapropenyl) furan-2,5-dione. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate; 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether)

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 | | |
| | Algae 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 | |
| 111-77-3 | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether | | | | | |
| | Acute fish toxicity | LC50 mg/l | 7500 | 96 h | Lepomis macrochirus | |
| | Acute algae toxicity | ErC50 mg/l | > 500 | 72 h | Desmodesmus subspicatus | |
| | Acute crustacea toxicity | EC50 mg/l | > 500 | 48 h | Daphnia magna | |
| 26544-38-7 | Dihydro-3- (tetrapropenyl) furan-2,5-dione | | | | | |
| | Acute fish toxicity | LC50 mg/l | >100 | 96 h | Oncorhynchus mykiss (Rainbow trout) | |
| | Acute crustacea toxicity | EC50 mg/l | >100 | 48 h | | |
| | Acute bacteria toxicity | (800 mg/l) | | 3 h | | |

12.2. Persistence and degradability

No information available.



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| CAS No | Chemical name | Method | Value | d | Source |
|------------|--|------------|-------|----|--------|
| | | Evaluation | | | |
| 26544-38-7 | Dihydro-3- (tetrapropenyl) furan-2,5-dione | | | | |
| | OECD 301D | | 9,9% | 28 | |
| | Not readily biodegradable (according to OECD criteria) | | | | |

12.3. Bioaccumulative potential

No information available.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|--|--------------|
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol | -1,98 (25°C) |
| 111-77-3 | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether | -0,68 |

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

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)****14.1. UN number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)**14.1. UN number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)**14.1. UN number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

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Air transport (ICAO-TI/IATA-DGR)

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

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

Restrictions on use (REACH, annex XVII):

Entry 54: 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether

2010/75/EU (VOC): 32,98 % (352,886 g/l)

2004/42/EC (VOC): 12,98 % (138,886 g/l)

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

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

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): 1,2,3,4,5,6,7,8,9,10,11,12,13,15.

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%

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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. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H361d | Suspected of damaging the unborn child. |
| H413 | May cause long lasting harmful effects to aquatic life. |
| EUH208 | Contains Dihydro-3- (tetrapropenyl) furan-2,5-dione. May produce an allergic reaction. |

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.)