

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2015/830

SAFETY DATA SHEET

61070 Brake Fluid RACING

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

1.1. Product identifier

Trade name

61070 Brake Fluid RACING
(UFI: 744F-W5UY-N00R-W6TX)

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

Relevant identified 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 data sheet

Company and address

| | | | |
|---------------|--------------------------|----------|---------------------|
| Company name: | PROFI-TECH GmbH | | |
| Street: | Otto-Lilienthal-Straße 2 | | |
| Place: | D-88046 Friedrichshafen | | |
| Telephone: | 07541 / 40286 - 0 | | |
| Email: | info@profi-tech.com | Telefax: | 07541 / 40 286 - 99 |

1.4. Emergency telephone number

24-hour emergency contact number out side USA/Canada: + 49 70024112112 (PRT)

24-hour emergency contact number in side USA/Canada: +11 49 70024112112 (PRT)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Repr. 2; H361d, Suspected of damaging the unborn child.

2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Suspected of damaging the unborn child.

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Safety statement(s)

General

P101, If medical advice is needed, have product container or label at hand.

Prevention

P202, Do not handle until all safety precautions have been read and understood.

P280, Wear protective gloves/protective clothing/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.

P301+P310, IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Storage

P405, Store locked up.

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

| Product/Ingredient name | Identifiers | % w/w | Classification | Note |
|--|--|--------|----------------|------|
| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | CAS No.: 30989-05-0 EC No.: 250-418-4 REACH No.: 01-2119462824-33-XXXX Index No.: | 30-90% | Repr. 2, H361d | |

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

Other information

No special

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 fresh air and stay with him/her.

If recovery is not rapid, seek medical attention

Skin contact

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

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material, is washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30°C) for at least 5 minutes. If any irritation persists, seek medical assistance and 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 inhalation of- or choking on vomited material. If medical attention is delayed, give adults 90-120 ml hard liquor such as 40% v/v spirits. Give children proportionately less at a rate of 2ml/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.

No special

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

IF exposed or concerned:

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.

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 dense smoke. 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 nearby 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 / CO₂).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

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.

Prevent unnecessary personnel entering area of spillage. When cleaning up large spills appropriate protective clothing should be worn -see section 8.

6.2. Environmental precautions

Avoid 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 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.

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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 safe handling

Avoid any method of handling that generates mists or aerosols.

Avoid direct contact with the product.

Do not eat, 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.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Storage temperature

Room temperature 15 to 30°C

Incompatible materials

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

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

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

| Product/Ingredient name | DNEL | Route of exposure | Duration |
|--|-----------------|-------------------|--|
| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | 8.3 mg/kgBW/day | Dermal | Long term – Systemic effects - Workers |
| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | 29.1 mg/m3 | Inhalation | Long term – Systemic effects - Workers |

PNEC

| Product/Ingredient name | PNEC | Route of exposure | Duration of Exposure |
|--|------------|------------------------|----------------------|
| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | 2.112 mg/l | Water | Single |
| Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate | 100 mg/l | Sewage Treatment Plant | Continuous |

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Do not eat, drink or smoke in the workplace

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Do not recirculate outlet air that contain the substances.

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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, forearms 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

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

Eye protection

| Work situation | Recommended | Standards | |
|----------------|--|-----------|---|
| | Wear safety glasses 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.

pH

7-9.5

Density (g/cm³)

1.04-1.09 (20.00 °C)

Viscosity

5-15 centistokes (20.00 °C)

Phase changes

Melting point (°C)

< -50

Boiling point (°C)

>300 °C

Vapour pressure

1.00 millibar (20.00 °C)

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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

Data on fire and explosion hazards

Flash point (°C)

>120 °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 data available

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 be greater.

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 acidosis and headache or nausea.

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Skin corrosion/irritation

Based on available data, the classification criteria are not met.
However, repeated contact may de-fat the skin and cause dermatitis.

Serious eye damage/irritation

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

Respiratory or skin sensitisation

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

Reproductive toxicity: This product contains teratogenic substances, 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.

Other information

No special

SECTION 12: Ecological information

12.1. Toxicity

Product is of low ecotoxicity
Fish 96h LC50 >100mg/l (Oncorhynchus Mykiss)
Daphnia 48h EC50 Not determined but expected to be virtually non-toxic
Algae 72h EC50 Not determined but expected to be virtually non-toxic

12.2. Persistence and degradability

Product is inherently biodegradable and is expected to be readily biodegradable 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

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

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.

EWG code

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Specific labelling

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

IATA

Not applicable

"MARINE POLLUTANT"

No

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

Restrictions for application

Pregnant women and women breastfeeding 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.

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Regulation (EC) No 1272/2008 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 safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H361d, Suspected of damaging the unborn child.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

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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 = Derived Minimal Effect Level
DNEL = Derived No Effect Level
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 = Organisation for Economic Co-operation and Development
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
SCL = A specific concentration limit.
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
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 substance/mixture is based on:

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The information contained herein is based on the present knowledge and experience of Orthene Chemicals Ltd. It in no way constitutes the users own assessment of work place risk as required by other Health and Safety legislation.

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This data sheet is available in other European Languages.

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

The safety data sheet is validated by

SWJ

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 data sheet applies only to this specific product (mentioned in section 1) and is not

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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.