

Safety data sheet

according to 1907/2006/EC, Article 31 & 2023/707/EC

Printing date 07.9.2024

Version number 2 (replaces version 1)

Revision: 22.04.2025

Trade name: BRAKE FLUID PREMIUM

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

· **1.1 Product identifier**

· Trade name: **BRAKE FLUID PREMIUM**

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

· **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations on industrial sites

· **Application of the substance / the preparation** : Lubricant

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Oryx Energies
12 rue Michel Servet
CH-1211 GENÈVE 12
SUISSE

Email: lubes@oryxenergies.com

· **1.4 Emergency telephone number:**

France (INRS 24h/24) - Tel : +33 (0)1 45 42 59 59

Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112

Belgium - Brüssel: +32 070/245 245

UK : Call NHS 999 in a medical emergency. If you urgently need medical help or advice but it's not a lifethreatening situation, call 111 (24/7). The NHS 111 number is currently only available in certain areas. If you're outside of these areas, you should call NHS Direct on 0845 4647

Swiss Toxicological Information Centre (Zürich) : +41 44 251 51 51 / www.toxi.ch.

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008 :**



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the C.L.P. regulation.

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**

2-[2-(2-butoxyethoxy)ethoxy]ethanol

· **Hazard statements**

H319 Causes serious eye irritation.

· **Precautionary statements**

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

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P337+P313 If eye irritation persists: Get medical advice/attention.

· **Additional information:**

EUH208 Contains bisphenol A. May produce an allergic reaction.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Determination of endocrine-disrupting properties**

CAS: 80-05-7 bisphenol A: List I

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Preparation: composed of the substances listed below.

· **Dangerous components:**

CAS: 143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol

10-100%

EINECS: 205-592-6  Eye Dam. 1, H318

Index number: 603-183-00-0

Specific concentration limits:

20 % ≤ C < 30 %

Eye Dam. 1; H318: C ≥ 30 % Eye Irrit. 2; H319:

CAS: 112-34-5 2- (2-butoxyethoxy)ethanol 3-<10%

EINECS: 203-961-6  Eye Irrit. 2, H319

Index number: 603-096-00-8

RTECS: KJ 9100000

Reg.nr.: 01-2119475104-44-XXXX


CAS: 80-05-7 bisphenol A 0.3-<1%

EINECS: 201-245-8  Repr. 2, H361f;  Eye Dam. 1, H318;

Index number: 604-030-00-0

RTECS: SL 6300000

Reg.nr.: 01-2119457856-23-xxxx

 Skin Sens. 1,
H317; STOT SE 3, H335

· **SVHC** Not applicable

· **Additional information:** For the wording of the listed risk phrases, refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:** Provide fresh air; consult a doctor in case of medical complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. ·

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed :** No further relevant information is available.

· **4.3 Indication of any immediate medical attention and special treatment needed :**

No further relevant information is available.

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SECTION 5: Firefighting measures

· **5.1 Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fire with alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture :**

During heating or in case of fire poisonous gases are produced.

· **5.3 Advice for firefighters**

· **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures :** Avoid contact with the eyes

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system. Do not allow the product to enter sewers/ surface water or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

· **6.4 Reference to other sections :**

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling :**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed.

· **7.3 Specific end use(s) :** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (5-<10%)

WEL (Great Britain) Short-term value: 101.2 mg/m³, 15 ppm ; Long-term value: 67.5 mg/m³, 10 ppm

IOELV (EU) Short-term value: 101.2 mg/m³, 15 ppm ; Long-term value: 67.5 mg/m³, 10 ppm

MAK (Switzerland) Short-term value: 101 mg/m³, 15 ppm ; Long-term value: 67 mg/m³, 10 ppm SSc;

· **DNELs**

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

Oral DNEL Public long-term systemic 5 mg/kg bw/d

Dermal DNEL Public long-term systemic 50 mg/kg bw/d

DNEL Worker long-term systemic 20 mg/kg bw/d

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Inhalative DNEL Public long-term local effects 40.5 mg/m³

DNEL Worker long-term local effects 67.5 mg/m³

DNEL Public acute/short-term local effects 60.7 mg/m³

DNEL Worker acute/short-term local effects 101.2 mg/m³

· **PNECs**

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

PNEC oral food 56 mg/kg

PNEC STP 200 mg/L

PNEC aqua (fresh water) 1 mg/L

PNEC aqua (intermittent releases) 3.9 mg/L

PNEC aqua (marine water) 0.1 mg/L

PNEC sediment (fresh water) 4 mg/kg

PNEC sediment (marine water) 0.4 mg/kg

PNEC soil 0.4 mg/kg

· **Additional information:**

The most current valid lists have been used as a basis for the production of this document.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from food, beverages and petfood.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.



· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**

Protective gloves

· **Gloves material** : Butyl rubber, BR



· **Eye/face protection**



Goggles recommended during refilling

Safety glasses

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Form:**

Liquid

· **Colour:**

According to product specification

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Not determined.

· **Boiling point or initial boiling point and boiling range**

>230 °C

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

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· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	>100 °C
· Auto-ignition temperature:	Not applicable.
· Decomposition temperature:	Not determined.
· pH	7-11.5
Viscosity:	
· Kinematic viscosity	> 4,2 cSt
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1.023-1.077 g/cm ³
· Relative density :	Not determined.
· Vapour density :	Not determined.
· 9.2 Other information :	
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not self igniting.
· Explosive properties:	Product does not present an explosion hazard.
· Molecular weight	206.28 g/mol
· Change in condition	
· Evaporation rate :	Not determined.
· Information with regard to physical hazard classes	
· Explosives	None
· Flammable gases	None
· Aerosols	None
· Oxidising gases	None
· Gases under pressure	None
· Flammable liquids	None
· Flammable solids	None
· Self-reactive substances and mixtures	None
· Pyrophoric liquids	None
· Pyrophoric solids	None
· Self-heating substances and mixtures	None
· Substances and mixtures, which emit flammable gases in contact with water	None
· Oxidising liquids	None
· Oxidising solids	None
· Organic peroxides	None
· Corrosive to metals	None
· Desensitised explosives	None

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions :** Reacts with oxidizing agents.

· **10.4 Conditions to avoid :** No further relevant information available.

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- **10.5 Incompatible materials:** No further relevant information available.
 - **10.6 Hazardous decomposition products:** No dangerous decomposition products known.
-

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

Oral LD50 5,660 mg/kg (rat)

Dermal LD50 4,000 mg/kg (rabbit)

CAS: 80-05-7 bisphenol A

Oral LD50 3,250 mg/kg (rat)

Dermal LD50 3,000 mg/kg (rabbit)

- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eyes:** Causes serious eye irritation.
- **Respiratory or skin sensitization** 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** 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.

· 11.2 Information on other hazards

· Endocrine disrupting properties

CAS: 80-05-7 bisphenol A: List I

SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability :** No further relevant information available.

· **12.3 Bioaccumulative potential :** No further relevant information available.

· **12.4 Mobility in soil :** No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects :** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

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· **Recommendation :**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

HP4 Irritant – skin irritation and eye damage

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· DOT, ADR, IMDG, IATA

· **14.2 UN proper shipping name**

none

· ADR, IMDG, IATA

· **14.3 Transport hazard class(es)**

· ADR, ADN, IMDG, IATA

none

· **Class**

· **14.4 Packing group**

none

· ADR, IMDG, IATA

none

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Not applicable.

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **UN "Model Regulation":** none

SECTION 15: Regulatory information

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

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 55

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical**

and electronic equipment – Annex II

None of the ingredients is listed.

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· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community**

and third countries in drug precursors None of the ingredients is listed.

· **National regulations:**

· **Substances of very high concern (SVHC) according to UK REACH**

CAS: 80-05-7 bisphenol A

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Classification in accordance with Delegated Regulation (EU) 2022/692 of 16 February 2022 adapting to technical and scientific progress C.L.P for the 18th time and amending table 3 of Annex VI part 3 of Regulation (EC) 1272/2008.

Classification in accordance with Delegated Regulation (EU) 2023/1434 of 25 April 2023 adapting to technical and scientific progress for the 19th time C.L.P and amending Annex VI part 1, section 1.1.3 of Regulation (EC) 1272/2008.

Classification in accordance with Delegated Regulation (EU) 2023/1435 of 2 May 2023 adapting to technical and scientific progress for the 20th time C.L.P and amending Annex VI part 3 of Regulation (EC) 1272/2008.

Classification in accordance with Delegated Regulation (EU) 2024/197 of 19 October 2023 adapting to technical and scientific progress for the 21st time C.L.P and amending Annex VI part 3 of Regulation (EC) 1272/2008.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2023/707.

· **Relevant phrases**

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H361f Suspected of damaging fertility.

· **Classification according to Regulation (EC) No 1272/2008**

Serious eye damage/irritation Expert judgement

· **Date of previous version:** 10.04.2024

· **Version number of previous version:** 1

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3