

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product identifier	Brake Fluid DOT4 RIDEX
Substance/mixture	mixture
UFI	PJD0-C0C0-800Y-2YJH

1.2. Relevant identified uses of the substance or mixture and uses advised against**Mixture's intended use**

Brake fluid.

The use descriptors

PC 17	Hydraulic fluids
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Mixture uses advised against

The product should not be used in ways other than those referred to in Section 1.

1.3. Details of the supplier of the safety data sheet

RIDEX GmbH	Josef-Orlopp-Straße 55 10365 Berlin, Germany	www.ridex.eu info@ridex.de	+49 302 202 72 34
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1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification of the mixture in accordance with Regulation (EC) No. 1272/2008**

The mixture is classified as dangerous.

Acute Tox. 4, H302

Repr. 2, H361fd

Most serious adverse effects on human health and the environment

Harmful if swallowed. Suspected of damaging fertility. Suspected of damaging the unborn child.

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

2.2. Label elements**Hazard pictogram****Signal word**

Warning

Hazardous substances

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

2,2'-oxybisethanol

Ethane-1,2-diol

Methyl-1H-benzotriazole

Hazard statements

H302	Harmful if swallowed.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. Other hazards

The mixture does not contain substances with endocrine-disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance that meets the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No. 1272/2008	Note
CAS: 30989-05-0 EC: 250-418-4	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30-70	Repr. 2, H361d	
Index: 603-140-00-6 CAS: 111-46-6 EC: 203-872-2	2,2'-oxybisethanol	20-30	Acute Tox. 4, H302	
Index: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3	Ethane-1,2-diol	10-20	Acute Tox. 4, H302 STOT RE 2, H373 (kidneys)	1
Index: 603-107-00-6 CAS: 111-77-3 EC: 203-906-6	2-(2-methoxyethoxy)ethanol	0.4-1.5	Repr. 1B, H360D Specific concentration limit: Repr. 1B, H360D: C $\geq$ 3%	1, 2
CAS: 29385-43-1 EC: 249-596-6	Methyl-1H-benzotriazole	< 0.1	Acute Tox. 4, H302 Repr. 2, H361d (ingestion) Aquatic Chronic 2, H411	

Notes:

1. A substance for which exposure limits are set.
2. The use of the substance is restricted by Annex XVII of REACH Regulation.

Full text of all classifications and hazard statements is given in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled	Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.
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Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

If on skin	Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.
If in eyes	Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.
If swallowed	Rinse out the mouth with water and provide 0.2-0.5 L of water. Provide medical treatment.

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

If inhaled	Not expected.
If on skin	Not expected.
If in eyes	Not expected.
If swallowed	Irritation, nausea.

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

Symptomatic treatment.

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

Suitable extinguishing media	Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.
Unsuitable extinguishing media	Water – full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

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

Use personal protective equipment for work. Follow the instructions in Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per Section 13. In the event of leakage of the substantial amount of the product, inform the fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See Sections 7, 8 and 13.

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

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

Safety data sheet
according to Commission Regulation (EU) 2020/878 as amended
Creation date: 09/02/2026. Version 1.0

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
Ethane-1,2-diol (CAS: 107-21-1)	OEL 8 hours	52 mg/m³
	OEL 8 hours	20 ppm
Ethane-1,2-diol (CAS: 107-21-1)	OEL 15 minutes	104 mg/m³
	OEL 15 minutes	40 ppm

Notes:
Skin.

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
2-(2-methoxyethoxy)ethanol (CAS: 111-77-3)	OEL 8 hours	50.1 mg/m³
	OEL 8 hours	10 ppm

Notes:
Skin.

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

Hand protection:
Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Glove material	Thickness	Breakthrough time	Class
Butyl rubber (IIR)	≥ 0.3 mm	> 480 min	6

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

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

Physical state	liquid
Colour	data not available
Odour	data not available
Melting point/freezing point	< -70°C
Boiling point or initial boiling point and boiling range	240–260°C
Flammability	non-inflammable
Lower and upper explosion limit	data not available
Flash point	125°C
Auto-ignition temperature	246°C
Decomposition temperature	data not available
pH	7–11.5 (100% solution at 20°C)
Kinematic viscosity	data not available
Solubility in water	miscible
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available

Density and/or relative density

Density	1.07 g/cm ³
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

9.2. Other information

Not available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Not available.

Safety data sheet
according to Commission Regulation (EU) 2020/878 as amended
Creation date: 09/02/2026. Version 1.0

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidising agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Hazardous substances in concentrations exceeding exposure limits may cause acute inhalation poisoning, depending on the concentration and duration of exposure. No toxicological data is available for the mixture.

Acute toxicity	Harmful if swallowed. Data for the components of the mixture are not available.
Skin corrosion/irritation	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
Serious eye damage/irritation	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
Respiratory or skin sensitisation	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
Germ cell mutagenicity	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
Carcinogenicity	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

Reproductive toxicity	Suspected of damaging fertility. Suspected of damaging the unborn child. Data for the components of the mixture are not available.
Toxicity for specific target organ – single exposure	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
Toxicity for specific target organ – repeated exposure	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.
Aspiration hazard	No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

Endocrine-disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

Not available.

SECTION 12: Ecological information

12.1. Toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

12.2. Persistence and degradability

No data are available for either the mixture or the components.

12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

12.6. Endocrine-disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information**14.1. UN number or ID number**

Not subject to transport regulations.

14.2. UN proper shipping name

Not relevant.

14.3. Transport hazard class(es)

Not relevant.

14.4. Packing group

Not relevant.

14.5. Environmental hazards

Not relevant.

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

14.6. Special precautions for user

Reference in Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

Not relevant.

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

2-(2-methoxyethoxy)ethanol	
Restriction	Conditions of restriction
30	1. Shall not be placed on the market, or used, ■ as substances, ■ as constituents of other substances, or, ■ in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: ■ either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No. 1272/2008, or, ■ the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No. 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: "Restricted to professional users". 2. By way of derogation, paragraph 1 shall not apply to: a. medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; b. cosmetic products as defined by Directive 76/768/EEC; c. the following fuels and oil products: ■ motor fuels which are covered by Directive 98/70/EC, ■ mineral oil products intended for use as fuel in mobile or fixed combustion plants, ■ fuels sold in closed systems (e.g. liquid gas bottles); d. artists' paints covered by Regulation (EC) No. 1272/2008;

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

2-(2-methoxyethoxy)ethanol	
Restriction	Conditions of restriction
	e. the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. f. devices covered by Regulation (EU) 2017/745.
54	Shall not be placed on the market after 27 June 2010, for supply to the general public, as a constituent of paints, paint strippers, cleaning agents, self-shining emulsions or floor sealants in concentrations equal to or greater than 0,1% by weight.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet	
H302	Harmful if swallowed.
H360D	May damage the unborn child.
H361f	Suspected of damaging fertility.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to the kidneys through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet	
P101	If medical advice is needed, have a product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Other important information about human health protection

The product must not be – unless specifically approved by the manufacturer/importer – used for purposes other than as per Section 1.

The user is responsible for adherence to all related health protection regulations.

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

Key to abbreviations and acronyms used in the safety data sheet	
Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent Bioaccumulative Toxic
PMT	Persistent Mobile Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
STOT RE	Specific Target Organ Toxicity - Repeated Exposure
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile

Safety data sheet

according to Commission Regulation (EU) 2020/878 as amended

Creation date: 09/02/2026. Version 1.0

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

Not available.

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available – information from registration dossiers.

More information

Classification procedure – calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.