

SAFETY DATA SHEET

Brake Fluid DOT 4 LV

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

1. 1. Product identifier

Product name

BRAKE FLUID - DOT4 LV

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

1.3 . Details of the supplier of the safety data sheet

Name	BREMBO S.P.A.	
Full address	Via Brembo, 25	
District and Country	24035 Curno (IT), Italy	
	TEL: 035 605 1111	

Email address of the competent person

Responsible for the Safety SDS@brembo.it Data Sheet

1.4 . Emergency telephone number For urgent inquiries refer to +39 035 6051111 (8.30 – 17.30 IT, EN)

SECTION 2: Hazards identification

2. 1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 Eye Irrit. 2 - H319 STOT RE 2 - H373
Environmental hazards	Not Classified
Human health	See Section 11 for additional information on health hazards.

2.2. Label elements



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Signal word	Warning
Hazard statements	H302 Harmful if swallowed. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure.
	P101 If medical advice is needed, have product container or label at hand.
	P102 Keep out of reach of children.
Precautionary statements	P260 Do not breathe vapour/ spray.
	P264 Wash contaminated skin thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+ P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unv P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/ attention if you feel unwell. P330 Rinse mouth.
	P337+P313 If eye irritation persists: Get medical advice/ attention.
	P501 Dispose of contents/ container in accordance with national regulations.
Contains	2,2'-OXYBISETHANOL

2.3. Other hazards

SECTION 3 : Composition/ information on ingredients

3.2. Mixtures

2 - [2 - (2 - methoxyethoxy) ethoxy		55% ~ 60%
CAS number: 30989-05-0	EC number: 250-418-4	
Classification Acute Tox. 4 - H302 STOT RE 2 - H373		
Methoxypolyethylene glycols		10% ~ 15%
CAS number: 9004-74-4	EC number: 215-801-2	
Classification		
Eye Dam. 1 - H318		



Triethylene glycol monomethyl ether		25% ~ 30%
CAS number: 112-35-6 EC number: confidentiality		
Classification		
Repr. 1B - H360FD		

Additives		3% ~ 5%
CAS number: confidentiality	EC number: confidentiality	
Classification		
Eye Irrit. 2 - H319		

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4 : First aid measures

4. 1. Description of first aid measures

General information	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
Inhalation	Get medical attention if any discomfort continues.
Ingestion	Consult a physician for specific advice.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any
Eye contact	discomfort continues. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Do not rub eye.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Effects may be delayed. Keep affected person under observation.
Inhalation	Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression. Irritation of nose, throat and airway.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting. Ingestion of large amounts may cause unconsciousness.

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se po Skin contact Pr de Eye contact In	May cause nausea, headache, dizziness and intoxication. Burning sensation in mouth. May cause unconsciousness, blindness and possibly death. Prolonged skin contact may cause redness and irritation. Mild dermatitis, allergic skin rash. Irritation of eyes and mucous membranes. Irritation, burning, lachrymation, blurred vision after liquid splash.	

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention
	promptly

SECTION 5 : Firefighting measures

5.1. Extinguishing media Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
5.2. Special hazards arising from Specific hazards	the substance or mixture Not relevant. No unusual fire or explosion hazards noted.
Hazardous combustion products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
5.3. Advice for firefighters Protective actions during Firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Leave danger zone immediately.

SECTION 6 : Accidental release measures

6. 1. Personal precautions, protective equipment and emergency procedures

Personal precautions	For personal protection, see Section 8. In case of spills, beware
	of slippery floors and surfaces . Follow precautions for safe
	handling described in this safety data sheet.

6.2. Environmental precautions

Environmental precautions	Collect and dispose of spillage as indicated in Section 13
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6.3. Methods and material for co	ontainment and cleaning up	
Methods for cleaning	For waste disposal, see Section protective clothing as described safety data sheet. Provide adde Contain spillage with sand, of non-combustible material. Avoid runoff entering drains, sewers Absorb spillage with non-com- material. Contact Health and 6695 for further assistance.	in Section 8 of this equate ventilation. earth or other suitable d the spillage or or watercourses. ombustible, absorbent
6.4. Reference to other sections	8	
Reference to other	Wear protective clothing as described this safety data sheet. For waste 13.	

SECTION 7 : Handling and storage

7. 1. Precautions for safe ha	ndling
Usage precautions	Read and follow manufacturer's recommendations . Avoid spilling. Avoid contact with skin and eyes. Remove contamination with soap and water or recognized skin cleansing agent. Do not use organic solvents . Do not eat, drink or smoke when using the product . Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
7.2. Conditions for safe stor	age, including any incompatibilities
Storage precautions	Keep away from food, drink and animal feeding stuffs. Store in tightly- closed, original container in a dry, cool and well-entilated place .
7.3. Specific end use(s)	
Specific end use(s) Section 1.2.	The identified uses for this product are detailed in
SECTION 8 : Exposure Controls	s/ personal protection

8. 1. Control parameters Occupational exposure limits

No exposure limits known for ingredient(s).

2 - (2 - METHOXYETHOXY) ETHANOL

Long-term exposure limit (8-hour TWA): WEL 10 ppm(Sk) 50. 1 mg/m3(Sk)

2 - (2 - BUTOXYETHOXY) ETHANOL

Long-term exposure limit (8-hour TWA) : WEL 10 ppm 67.5 mg/m³



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Short-term exposure limit (15-minute) : WEL 15 ppm 101.2 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment	
Appropriate engineering controls	Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients .
Eye/ face protection	The following protection should be worn: Chemical splash goggles or face shield
Hand protection	Chemical- resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible .
Other skin and body protection	Wear appropriate clothing to prevent reasonably probable skin contact.
Hygiene measures	Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn

SECTION 9 : Physical and Chemical Properties

9. 1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless. to Amber.
Odour	No characteristic odour.
Odour threshold	Not determined.
рН	pH (concentrated solution): 7.0 - 10.5
Melting point	<-50°C
Initial boiling point and range	262°C
Flash point	>90°C CC (Closed cup).
Evaporation rate	negligable
Upper/ lower flammability or explosive limits	Not determined.

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Vapour pressure	<2 mbar @ 20°C	
Vapour density	Not determined.	
Relative density	1.01 - 1.07 @ 20°C	
Solubility(ies)	Miscible with water. Miscible with the following materials:	
Ethanol.	<2.0	0
Partition coefficient		
Auto-ignition temperature	>300°C	
Decomposition Temperature	Not determined.	
9.2. Other information		
Other information	None.	
CTION 10 : Stability and reactivit	у	
10.1. Reactivity Reactivity	There are no know	
10.2. Chemical stability Stability	associated with this No particular stabili	
10.3 . Possibility of hazardous rea Possibility of hazardous reactions	will not polymerise.	
10.4. Conditions to avoid Conditions to avoid		strong oxidising agents. and other sources of acids and alkalis.
10.5. Incompatible materials Materials to avoid	Strong oxidising ag	ents.
10.6. Hazardous decomposition p Hazardous decomposition products		se when used and stored

SECTION 11 : Toxicological information

11. 1. Information on toxicological effects Acute toxicity - oral

ATE oral (mg/kg)

Ingestion

Inhalation

Skin contact

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Eye contact Acute and chronic health hazards	•	e hazardous by inhala ressure of the product vallowed.	
	Repeated exposure may cause skin dryness or		
	cracking. Irrit	ation of eyes and mu	cous
	membranes.		
	This chemica touched.	I can be hazardous w	/hen inhaled and/ or
SECTION 12 : Ecological Information	on		
Ecotoxicity		environmentally haza	ents are not classified as ardous. However, large or ave hazardous effects on
12.1. Toxicity Acute toxicity - fish Acute toxicity - aquatic invertebrates Acute toxicity - aquatic plants		LC₅₀, 96 hours: >220 EC₅₀, 48 hours: >500 magna IC₅₀, 72 hours: 2490	0mg/l mg/l, Daphnia
 12.2. Persistence and degradability Persistence and degradability 12.3. Bioaccumulative potential Bioaccumulative potential Partition coefficient 		The product is biode	gradable.
		The product contains bioaccumulating subs	
12.4. Mobility in soil Mobility Adsorption/ desorption coefficient		The product is solubl Not available.	e in water.
12.5. Results of PBT and vPvB as Results of PBT and vPvB asse		This substance is not vPvB according to cu	
12.6. Other adverse effects Other adverse effects		Not available.	
SECTION 13 : Disposal considerati	ons		
13.1. Waste treatment methods			

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General information		te, the safety precautions of the product should be
Disposal methods	site in accordance w the local Waste Disp vermiculite, dry sand	licensed waste disposal vith the requirements of bosal Authority. Absorb in d or earth and place into of waste via a licensed ractor.
CTION 1 4 : Transport information	on	
General	The product is not covered by int regulations on the transport of dan (IMDG, IATA, ADR/RID).	
14. 1. UN number Not applicable.		
14.2. UN proper shipping name Not applicable.		
14.3. Transport hazard class(es) No transport warning sign requ	ired.	
14.4. Packing group		
Not applicable.		
14.5. Environmental hazards Environmentally hazardous substance/ marine pollutant	No.	
14.6. Special precautions for use Not applicable.	r	
14.6. Special precautions for user Not applicable.	r	
14.7. Transport in bulk according	g to Annex II of MARPOL and the IB	C Code
Transport in bulk according Annex II of MARPOL 73/78 and the IBC Code	to Not applicable	
CTION 15 : Regulatory informat	tion	
15.1. Safety, health and environn	nental regulations/legislation specific f	for the substance or mixture
National regulations	The Control of Subs	tances Hazardous to

National regulations	The Control of Substances Hazardous to
	Health Regulations 2 0 0 2
	(SI 2002 No. 2677) (as amended).
EU legislation	Regulation (EC) No 19 0 7 / 2 0 0 6 of the
	European Parliament and of



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the Council of 1 8 December 2 0 0 6 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16 : Other information

General information	Only trained personnel should use this material.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	12/01/2017
Revision	10
Supersedes date	21/ 10/2015
SDS status	Approved.
Hazard statements in full	 H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H360 FD May damage fertility. May damage the unborn child. H361 d Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated
	exposure.

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.