

Revision nr. 10
Dated 30/04/2019
First compilation

Printed on 12/06/2019

**BRAKE FLUID DOT 5.1** 

Page n. 1/14

# **Safety Data Sheet**

# SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name BRAKE FLUID DOT 5.1

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

Intended use BRAKE FLUID DOT 5.1 (for B2B)

Identified Uses	Industrial	Professional	Consumer
Functional Fluids	₩	✓	<b>~</b>
1.3. Details of the supplier of the safety data sheet Name Full address District and Country	BREMBO S.p.A. Via Brembo, 25 24035 Curno (BG) Italia		
	Tel. +390356051111		
	Fax +390356052400		
e-mail address of the competent person			
responsible for the Safety Data Sheet	laboratorio@gicarspa.com		
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	+390321772312 (business ho	ours)	

#### **SECTION 2. Hazards identification**

# 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:
Reproductive toxicity, category 2
,, , ,

H361d

Suspected of damaging the unborn child.

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Revision nr. 10 Dated 30/04/2019 First compilation

Printed on 12/06/2019 Page n. 2/14

# **BRAKE FLUID DOT 5.1**



Signal words: Warning

Hazard statements:

H361d Suspected of damaging the unborn child.

Precautionary statements:

Wear protective gloves/ protective clothing / eye protection / face protection. P280 P201

Obtain special instructions before use.

P308+P313 IF exposed or concerned: Get medical advice / attention.

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] borate Contains:

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

# **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

tris[2-[2-(2-

methoxyethoxy)ethoxy]ethyl]

borate

CAS 30989-05-0  $60 \le x < 70$ Repr. 2 H361d

EC 250-418-4 INDEX -

Reg. no. 01-2119462824-33-xxxx

**DIETHYLENE GLYCOL** MONOMETHYL ETHER

 $1 \le x < 2$ Repr. 2 H361d CAS 111-77-3

EC 203-906-6

INDEX 603-107-00-6

Reg. no. 01-2119475100-52-xxxx **CAPRYL AMINE ETHOXYLATE 2-4** 

ΕO

CAS 15520-05-5  $0 \le x < 1,5$ Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 239-555-0 INDEX -

Reg. no. 01-2120136161-71-xxxx



Revision nr. 10
Dated 30/04/2019
First compilation
Printed on 12/06/2019

# **BRAKE FLUID DOT 5.1**

Page n. 3/14

#### **DIETHYLENE GLYCOL**

CAS 111-46-6

 $1 \le x < 4$ 

Acute Tox. 4 H302

EC 203-872-2

INDEX 603-140-00-6

Reg. no. 01-2119457857-21-xxxx

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

# **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).



Revision nr. 10
Dated 30/04/2019
First compilation
Printed on 12/06/2019

### **BRAKE FLUID DOT 5.1**

Page n. 4/14

#### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

# 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

# 8.1. Control parameters

### Regulatory References:

DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
EST	Eesti	Töökeskkonna keemiliste ohutegurite piirnormid 1. Vastu võetud 18.09.2001 nr 293 RT I 2001, 77, 460 -
		Redaktsiooni jõustumise kp: 01.01.2008
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisuja 2012:5
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	DĖL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-
		827/A1-287
LVA	Latvija	Ķīmisko vielu aroda ekspozīcijas robežvērtības (AER) darba vides gaisā 2012



Revision nr. 10 Dated 30/04/2019

First compilation Printed on 12/06/2019

Page n. 5/14

# **BRAKE FLUID DOT 5.1**

POL PRT Polska Portugal

ROZPORZĄDZENIE MINISTRA RODZIN Y, PRAC Y I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diaro da Republica I 26; 2012-02-06

România Slovensko

Sverige

OEL ĔU

SVK SVN Slovenija

ROU

SWE

Monitorul Oficial al României 44; 2012-01-19
NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007
Uradni list Republike Slovenije 04.06.2015 (1602) - Pravilnik o spremembah in dopolnitvah Pravilnika o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu

Occupational Exposure Limit Values, AF 2011:18

Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive

2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

# DIETHYLENE GLYCOL MONOMETHYL ETHER

Threshold Limit Va	alue						
Type	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	50,1	10			SKIN	
HTP	FIN	50,1	10			SKIN	
TLV	GRC	50,1	10				
VLEP	ITA	50,1	10			SKIN	
NDS	POL	50					
VLE	PRT	50,1	10			SKIN	
TLV	ROU	50,1	10			SKIN	
MV	SVN	50,1	10			SKIN	
OEL	EU	50,1	10			SKIN	

DIET	HY	LENE	GLY	COL
	-			

Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	44	10	176	40		
MAK	DEU	44	10	176	40		
TLV	DNK	11	2,5				
TLV	EST	45	10	90	20	SKIN	
WEL	GBR	101	23				
RD	LTU	45	10	90	20	SKIN	
RV	LVA	10					
NPHV	SVK	44	10	176			
MAK	SWE	45	10	90	20	SKIN	
Predicted no-effect cor	centration - PNEC						
Normal value in fresh v	vater			10		mg/l	
Normal value in marine	water			1		mg/l	
Normal value for marin	e water sediment			20,9		mg/kg	
Normal value of STP m	nicroorganisms			10		mg/l	
Normal value for the terrestrial compartment				1,53		mg/kg	

Health - Deriv	ed no-ettect	: level - DNEL	./DMEL

	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Inhalation							12 mg/m3	VND



Revision nr. 10
Dated 30/04/2019
First compilation
Printed on 12/06/2019

**5.1** Page n. 6/14

**BRAKE FLUID DOT 5.1** 

 Skin
 VND
 53 mg/kg/d

Legend:

(C) = CEILING : INHAL = Inhalable Fraction : RESP = Respirable Fraction : THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### **EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### **SECTION 9. Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Appearance liquid

Colour amber

Odour characteristic

Odour threshold Not available
pH 7-11



Revision nr. 10 Dated 30/04/2019 First compilation Printed on 12/06/2019

Page n. 7/14

# **BRAKE FLUID DOT 5.1**

Temperature:20°C

Melting point / freezing point Not available > 265 °C Initial boiling point Not available Boiling range Flash point > 125 °C **Evaporation Rate** Not available Flammability of solids and gases not applicable Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Not available Vapour density Relative density 1.010-1.080 Solubility soluble Partition coefficient: n-octanol/water Not available > 350 °C Auto-ignition temperature Decomposition temperature Not available

13,660 mm2/s Viscosity

Explosive properties Not available Not available Oxidising properties

#### 9.2. Other information

VOC (Directive 2010/75/EC): 0 VOC (volatile carbon):

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

Hygroscopic.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### DIETHYLENE GLYCOL MONOMETHYL ETHER

Reacts violently developing heat on contact with: alkaline metals, strong acids, strong oxidants, oleum. Fire hazard. Develops flammable gas on contact with: calcium hypochlorite. Develops hydrogen on contact with: aluminium.



Revision nr. 10
Dated 30/04/2019
First compilation
Printed on 12/06/2019

# **BRAKE FLUID DOT 5.1**

Page n. 8/14

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

DIETHYLENE GLYCOL MONOMETHYL ETHER

Possibility of explosion with air due to production of peroxides.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

DIETHYLENE GLYCOL MONOMETHYL ETHER

When heated to decomposition releases: harsh fumes, zinc alloys.

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

# 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

# **ACUTE TOXICITY**

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture:



Revision nr. 10 Dated 30/04/2019 First compilation Printed on 12/06/2019

Page n. 9/14

# **BRAKE FLUID DOT 5.1**

Not classified (no significant component)

DIETHYLENE GLYCOL

LD50 (Oral) 12565 mg/kg Rat

LD50 (Dermal) 11890 mg/kg Rabbit

DIETHYLENE GLYCOL MONOMETHYL ETHER

LD50 (Oral) 5500 mg/kg Rat

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

Serious eye damage/eye irritation Product: Species: Bovine cornea Assessment: No eye irritation Method: OECD Test Guideline 437 Result: No eye irritation

GLP: yes

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### **GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

### **CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

### **STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE



Revision nr. 10
Dated 30/04/2019
First compilation

# **BRAKE FLUID DOT 5.1**

Printed on 12/06/2019 Page n. 10/14

Does not meet the classification criteria for this hazard class

**ASPIRATION HAZARD** 

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 12.1. Toxicity

DIETHYLENE GLYCOL

LC50 - for Fish > 75 g/l

#### 12.2. Persistence and degradability

DIETHYLENE GLYCOL MONOMETHYL

ETHER

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

#### 12.3. Bioaccumulative potential

DIETHYLENE GLYCOL MONOMETHYL

**ETHER** 

Partition coefficient: n-octanol/water -0,47

12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.



Revision nr. 10
Dated 30/04/2019
First compilation

# **BRAKE FLUID DOT 5.1**

Printed on 12/06/2019 Page n. 11/14

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J		11 W I A	4 IVIIIX		PALA	רוועורו

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information
The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.
14.1. UN number
Not applicable
14.2. UN proper shipping name
Not applicable
14.3. Transport hazard class(es)
Not applicable
14.4. Packing group
Not applicable
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
Information not relevant



Revision nr. 10
Dated 30/04/2019
First compilation

**BRAKE FLUID DOT 5.1** 

Printed on 12/06/2019 Page n. 12/14

# **SECTION 15. Regulatory information**

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

<u>Product</u>

Point 3

Contained substance

Point 54 DIETHYLENE

GLYCOL MONOMETHYL ETHER Reg. no.: 01-2119475100-52-xxxx

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

DIETHYLENE GLYCOL MONOMETHYL ETHER

DIETHYLENE GLYCOL



Revision nr. 10 Dated 30/04/2019 First compilation Printed on 12/06/2019

#### **BRAKE FLUID DOT 5.1**

Page n. 13/14

#### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Repr. 2 Reproductive toxicity, category 2

Acute Tox. 4 Acute toxicity, category 4

Eye Dam. 1 Serious eye damage, category 1

Skin Irrit. 2 Skin irritation, category 2

H361d Suspected of damaging the unborn child.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H315 Causes skin irritation.

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- · CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- · LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- · WGK: Water hazard classes (German).

### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)



Revision nr. 10

Dated 30/04/2019

First compilation

Printed on 12/06/2019 Page n. 14/14

# **BRAKE FLUID DOT 5.1**

13. Regulation (EU) 2017/776 (X Atp. CLP)

- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

msds for B2B.