

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jul 2023

Print date: 5 Jul 2023

Version: 6



Page 1/11

## Mabanol Brake Fluid DOT-4

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

#### \* 1.1. Product identifier

Trade name/designation:

Mabanol Brake Fluid DOT-4

UFI:

2WT4-G2WX-YW5M-A1QU

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

Use of the substance/mixture:

brake fluids.

Relevant identified uses:

Life cycle stage [LCS]

PW: Widespread use by professional workers

Product Categories [PC]

PC 17: Hydraulic fluids

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mabanol GmbH & Co. KG

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

E-mail (competent person): giznord@giz-nord.de

#### 1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

### SECTION 2: Hazards identification

#### \* 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Reproductive toxicity (Repr. 2)	H361d: Suspected of damaging the unborn child.	

#### \* 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS08

Health hazard

Signal word: Warning

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jul 2023

Print date: 5 Jul 2023

Version: 6



Page 2/11

## Mabanol Brake Fluid DOT-4

### Hazard components for labelling:

tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate; 2-(2-methoxyethoxy)ethanol; 2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether; butoxytriethylene glycol; Poly(oxy-1,2-ethanediyl), ?-butyl-?-hydroxy-

#### Hazard statements for health hazards

H361d	Suspected of damaging the unborn child.
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### Supplemental hazard information: none

#### Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

#### Precautionary statements Prevention

P264	Wash hands thoroughly after handling.
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#### Precautionary statements Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

### Additional information:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 30989-05-0 EC No.: 250-418-4 REACH No.: 01-2119462824-33	<b>tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate</b> Repr. 2 (H361d) Warning	30 - < 90 weight-%
CAS No.: 143-22-6 EC No.: 205-592-6 Index No.: 603-183-00-0	<b>2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether; butoxytriethylene glycol</b> Eye Dam. 1 (H318) Danger <b>Specific concentration limit (SCL)</b> Eye Dam. 1; H318: C ≥ 30% Eye Irrit. 2; H319: 20% ≤ C < 30%	1 - < 9.9 weight-%
CAS No.: 9004-77-7 EC No.: 500-012-0	<b>Poly(oxy-1,2-ethanediyl), ?-butyl-?-hydroxy-</b> Eye Irrit. 2 (H319) Warning	0 - < 5 weight-%
CAS No.: 111-77-3 EC No.: 203-906-6 Index No.: 603-107-00-6 REACH No.: 01-2119475100-52	<b>2-(2-methoxyethoxy)ethanol</b> Repr. 2 (H361d***) Warning	0 - < 2.99 weight-%

Full text of H- and EUH-phrases: see section 16.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jul 2023

Print date: 5 Jul 2023

Version: 6



Page 3/11

## Mabanol Brake Fluid DOT-4

### SECTION 4: First aid measures

#### \* 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### Following inhalation:

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

##### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

##### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Do NOT induce vomiting.

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

Observe risk of aspiration if vomiting occurs.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>).  
Use water spray jet to protect personnel and to cool endangered containers.

##### Unsuitable extinguishing media:

Full water jet.

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

Burning produces heavy smoke.

##### Hazardous combustion products:

In case of fire: Gases/vapours, toxic.  
In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Sulphur dioxide (SO<sub>2</sub>). Acrolein.

#### 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

##### Personal precautions:

Remove persons to safety. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Remove all sources of ignition.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 5 Jul 2023

**Print date:** 5 Jul 2023

**Version:** 6



Page 4/11

## Mabanol Brake Fluid DOT-4

### 6.1.2. For emergency responders

#### Personal protection equipment:

Personal protection equipment: see section 8.

### 6.2. Environmental precautions

Cover drains. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

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

#### For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8). Avoid: generation/formation of aerosols. Generation/formation of mist.

#### Fire prevent measures:

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

#### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Only use containers specifically approved for the substance/product. Keep container tightly closed in a cool, well-ventilated place.

#### Hints on storage assembly:

Keep away from: Oxidizing agent.

Do not store together with: Food and feedingstuffs.

#### Further information on storage conditions:

Temperature control required. Protect against: UV-radiation/sunlight. Keep container tightly closed.

### 7.3. Specific end use(s)

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jul 2023

Print date: 5 Jul 2023

Version: 6



Page 5/11

## Mabanol Brake Fluid DOT-4

### SECTION 8: Exposure controls/personal protection

#### \* 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	<b>2-(2-methoxyethoxy)ethanol</b> CAS No.: 111-77-3 EC No.: 203-906-6	① 10 ppm (50 mg/m <sup>3</sup> ) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) EU, Y, H, 11
IOELV (EU)	<b>2-(2-methoxyethoxy)ethanol</b> CAS No.: 111-77-3 EC No.: 203-906-6	① 10 ppm (50.1 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate</b> CAS No.: 30989-05-0 EC No.: 250-418-4	29.1 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate</b> CAS No.: 30989-05-0 EC No.: 250-418-4	8.3 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

  

Substance name	PNEC Value	① PNEC type
<b>tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate</b> CAS No.: 30989-05-0 EC No.: 250-418-4	100 mg/L	① PNEC sewage treatment plant

#### \* 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

Provide adequate ventilation.

##### 8.2.2. Personal protection equipment



##### Eye/face protection:

Eye glasses with side protection (EN 166).

##### Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber). Butyl caoutchouc (butyl rubber).

Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jul 2023

Print date: 5 Jul 2023

Version: 6



Page 6/11

## Mabanol Brake Fluid DOT-4

Suitable protective clothing: flame-resistant.

### Respiratory protection:

Usually no personal respirative protection necessary.

Respiratory protection necessary at: exceeding exposure limit values. aerosol or mist formation. Suitable respiratory protection apparatus: Filtering device (full mask or mouthpiece) with filter: A2, P2, A2/P2, ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### \* 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Liquid

Colour: amber

Odour: not determined

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7 - 10.5		
Melting point	< -50 °C		
Freezing point	not determined		
Initial boiling point and boiling range	> 260 °C		
Decomposition temperature	300 °C		
Flash point	> 120 °C		
Evaporation rate	not determined		
Auto-ignition temperature	not determined		
Upper/lower flammability or explosive limits	not determined		
Vapour pressure	not determined		
Vapour density	not determined		
Density	1.02 - 1.07 g/cm <sup>3</sup>	20 °C	
Relative density	not determined		
Bulk density	not determined		
Water solubility	easily soluble		
Partition coefficient: n-octanol/water	1.5		
Dynamic viscosity	not determined		
Kinematic viscosity	5 - 10 cSt	20 °C	

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jul 2023

Print date: 5 Jul 2023

Version: 6



Page 7/11

## Mabanol Brake Fluid DOT-4

### 10.5. Incompatible materials

Oxidising agent, strong.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

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

<b>2-(2-methoxyethoxy)ethanol</b> CAS No.: 111-77-3 EC No.: 203-906-6
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<b>LD<sub>50</sub> oral:</b> 5,500 mg/kg (Rat)
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<b>LD<sub>50</sub> dermal:</b> 6,540 mg/kg (Rabbit)
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#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

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

#### 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:

May damage 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.

#### Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

### \* 11.2. Information on other hazards

#### Endocrine disrupting properties:

No information available.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

#### Additional ecotoxicological information:

LC<sub>50</sub>: => 100 mg/L Exposure duration 96 hour(s) Species: Oncorhynchus mykiss (Rainbow trout)

### 12.2. Persistence and degradability

#### Biodegradation:

Readily biodegradable (according to OECD criteria).

#### Additional information:

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jul 2023

Print date: 5 Jul 2023

Version: 6



Page 8/11

## Mabanol Brake Fluid DOT-4

### 12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water:

1.5

Accumulation / Evaluation:

No indication of bioaccumulation potential.

### \* 12.4. Mobility in soil

Soluble in: Water. If product enters soil, it will be mobile and may contaminate groundwater.

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

**2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutyl ether; butoxytriethylene glycol** CAS No.: 143-22-6 EC No.: 205-592-6

**Results of PBT and vPvB assessment:** This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate** CAS No.: 30989-05-0 EC No.: 250-418-4

**Results of PBT and vPvB assessment:** This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**Poly(oxy-1,2-ethanediyl), ?-butyl-?-hydroxy-** CAS No.: 9004-77-7 EC No.: 500-012-0

**Results of PBT and vPvB assessment:** This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**2-(2-methoxyethoxy)ethanol** CAS No.: 111-77-3 EC No.: 203-906-6

**Results of PBT and vPvB assessment:** This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### \* 12.6. Endocrine disrupting properties

No information available.

### \* 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 01 13 *	brake fluids
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\*: Evidence for disposal must be provided.

#### Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jul 2023

Print date: 5 Jul 2023

Version: 6



Page 9/11

## Mabanol Brake Fluid DOT-4

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant

### 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

#### 15.1.1. EU legislation

##### Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]: No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

Observe in addition any national regulations!

#### 15.1.2. National regulations

##### [DE] National regulations

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

##### Störfallverordnung (12. BImSchV)

##### for substances contained in the product:

This product is not assigned to a hazard category.

##### Water hazard class

##### WGK:

1 - slightly hazardous to water

##### Remark:

Self-classification (mixture; calculation rule).

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### \* 15.3. Additional information

Water hazard class (WGK): 1 (slightly hazardous to water).

## SECTION 16: Other information

### \* 16.1. Indication of changes

1.1.	Product identifier
2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
5.2.	Special hazards arising from the substance or mixture
8.1.	Control parameters
8.2.	Exposure controls

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jul 2023

Print date: 5 Jul 2023

Version: 6



Page 10/11

## Mabanol Brake Fluid DOT-4

9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.4.	Mobility in soil
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
12.7.	Other adverse effects
15.3.	Additional information
16.1.	Indication of changes
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

### 16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)  
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen  
CAS Chemical Abstracts Service  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC<sub>50</sub>: Lethal concentration, 50 percent  
LD<sub>50</sub>: Lethal dose, 50 percent  
NIOSH: National Institute of Occupational Safety and Health  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NTP: National Toxicology Program  
N/A: not applicable  
OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)  
OSHA: Occupational Safety and Health Administration  
PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)  
PBT: persistent bioaccumulative toxic  
PNEC: predicted no effect concentration  
REL: Recommended exposure limit (Empfohlene Expositionsgrenze)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)  
SVHC: substance of very high concern  
TLV: Threshold Limit Values (Schwellwert Grenzwerte)  
TRGS Technische Regeln für Gefahrstoffe  
TSCA: Toxic Substances Control Act  
TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bioaccumulative  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 5 Jul 2023

Print date: 5 Jul 2023

Version: 6



Page 11/11

## Mabanol Brake Fluid DOT-4

### 16.3. Key literature references and sources for data

No data available

### \* 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Reproductive toxicity (Repr. 2)	H361d: Suspected of damaging the unborn child.	

### \* 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

\* Data changed compared with the previous version.