



To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrant or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States)
The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team
Zep Inc.



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

1.1 Product identifier

Trade name/designation Mercedes-Benz Genuine Automatic Transmission Fluid FE MB 236.15
Partno A 000 989 44 04 11 FULW

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

Use

Lubricant

Uses advised against

This product should not be used for other purposes than those specified without the advice of an expert.

1.3 Details of the supplier of the safety data sheet

Supplier

Mercedes-Benz AG
70546 Stuttgart
Germany
+49 (0)711 17-0
Telefon + 49 (0)711 17-97390
Telefax + 49 (0)711 17-94831
E-Mail (fachkundige Person) mercedes-benz-sdb@mercedes-benz.com

Manufacturer

Mercedes-Benz AG

70546 Stuttgart
Germany

Telephone +49 (0)711 17-0

1.4 Emergency telephone number

+49 (0)711 17-0

gms.daimler.com

Giftnotruf der Charité – Universitätsmedizin Berlin +49 (0)30 30686700

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Asp. Tox. 1, H304

hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

2.2 Label elements

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

product identifiers

Trade name/designation Mercedes-Benz Genuine Automatic Transmission Fluid FE MB 236.15



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Hazard components for labelling

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified

Hazard pictograms



GHS08

Signal word

Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P102 Keep out of reach of children.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/.

P331 Do NOT induce vomiting.

P501 Dispose of the content / the container in accordance with regional regulations.

2.3 Other hazards

Other adverse effects

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

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

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Description

Highly refined mineral oil with additives.

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
72623-87-1	276-738-4	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified	50 < 100 %	Asp. Tox. 1 H304
1218787-32-6	620-540-6	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	0.1 < 0.25 %	Acute Tox. 4 H302 Skin Corr. 1C H314 Eye Dam. 1 H318 Aquatic Acute 1 H400 M=10 Aquatic Chronic 1 H410 M=1
	939-485-7	3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	0.01 < 0.1 %	Acute Tox. 4 H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 1 H400 M=100 Aquatic Chronic 1 H410 M=1



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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
124-28-7	204-694-8	dimantine	0.01 < 0.1 %	Acute Tox. 4 H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 1 H400 M=10 Aquatic Chronic 1 H410

REACH No.	Substance name
01-2119474889-13	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified
01-2119510877-33	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol
01-2119974116-35	3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine
01-2119486676-20	dimantine

Remark

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove victim out of the danger area.
Remove contaminated, saturated clothing immediately.

Following inhalation

Provide fresh air.
In the event of symptoms refer for medical treatment.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
Remove contact lens

After ingestion

Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.
If swallowed or in the event of vomiting, risk of entering the lungs.
Risk of chemical pneumonia.



SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam
Extinguishing powder
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire formation of dangerous gases possible.
Nitrogen oxides (NO_x)
Aldehydes
Carbon monoxide
Carbon dioxide (CO₂)
Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Cool endangered containers with water spray and possibly remove them from fire site.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid skin and eye contact.
Use personal protection equipment.
Special danger of slipping by leaking/spilling product.

For emergency responders

Personal protection equipment
Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter into surface water or drains.
Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment

Collect with spongy material (all-purpose gelation agent) and dispose of in compliance with the regulations.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13



SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid:

generation/formation of aerosols

Provide for appropriate ventilation/aspiration at the work station

Do not heat up to temperatures close to the flash point.

All work processes must always be designed so that the following is as low as possible:

Skin contact

Avoid:

Eye contact

Do not put any product-impregnated cleaning rags into your trouser pockets.

Advices on general occupational hygiene

Thorough skin-cleansing after handling the product.

Apply skin care products after work.

When using do not eat, drink, smoke, sniff.

Keep away from food and drink.

Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Storage class

10 Combustible liquids that cannot be assigned to any of the above storage classes

Materials to avoid

Do not store together with:

Food and feedingstuffs

Further information on storage conditions

Keep container tightly closed and protected against effects of weather in a cool, appropriately aerated area.

Protect against:

Heat

UV-radiation/sunlight

7.3 Specific end use(s)

Recommendation

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Sufficient ventilation and exhaustion.

Personal protection equipment

Eye/face protection

Safety glasses recommended during transfer

DIN EN 166

Hand protection

Glove materials data [type, thickness, breakthrough time/duration of use, permeation rate]: Nitrile rubber (protection index 6, >480 min, 0.4 mm)

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.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.



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Body protection:

Protective clothing

Respiratory protection

Respiratory protection necessary at:

insufficient exhaust

prolonged exposure

Suitable respiratory protection apparatus:

Filtering device (full mask or mouthpiece) with filter:

AX

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

blue

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
pH	in delivery state		not applicable
Melting point/freezing point	not determined		
Initial boiling point and boiling range	not determined		
Flash point	190 °C		
Evaporation rate	not determined		
flammability	not determined		
Upper/lower flammability or explosive limits	not determined		
Vapour pressure	not determined		
Vapour density	not determined		
Density	0.84 g/mL (15°C)		
Solubility(ies)	Water solubility (g/L)		practically insoluble
Partition coefficient: n-octanol/water	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
Viscosity	kinematic 18 mm ² /s (40°C)		
Explosive properties:			The product is not explosive
Oxidising properties	not determined		

9.2 Other information

Other safety information

none



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SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions known.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Heat
High temperatures

10.5 Incompatible materials

Oxidising agent, strong
Strong acids
Strong bases

10.6 Hazardous decomposition products

No decomposition products will result from proper storage and handling.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Animal data

	Effective dose	Method	Source, Remark
Acute oral toxicity	LD50: > 5000 mg/kg Rat	OECD 401	CAS No.72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified
Acute oral toxicity	LD50: 1350 mg/kg Rat	OECD 401	CAS No.1218787-32-6 2,2'- (C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol
Acute oral toxicity	LD50: 500 mg/kg		3-((C9-11-iso,C10- rich)alkyloxy)propan-1- amine
Acute oral toxicity	LD50: 1230 mg/kg Rat	OECD 401	CAS No.124-28-7 dimantine
Acute dermal toxicity	LD50: 2001 mg/kg Rabbit	OECD 402	CAS No.72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified
Acute dermal toxicity	LD50: 8000 mg/kg		CAS No.124-28-7 dimantine



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	Effective dose	Method	Source, Remark
Acute inhalation toxicity	Acute inhalation toxicity (dust/mist) LC50: > 5 mg/L Rat Exposure time 4 h		CAS No.72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified

Assessment/classification

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

Skin corrosion/irritation

Practical experience/human evidence

Frequent and prolonged contact with the skin may cause skin irritation.

Assessment/classification

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

Eye damage/irritation

Assessment/classification

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

Sensitisation to the respiratory tract

Assessment/classification

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

Skin sensitisation

Assessment/classification

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

Germ cell mutagenicity

Assessment/classification

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

Carcinogenicity

Assessment/classification

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

Reproductive toxicity

Assessment/classification

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

Overall Assessment on CMR properties

This product does not meet the criteria for classification in Categories 1A/1B.

STOT-single exposure

STOT SE 1 and 2

Assessment/classification

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

STOT SE 3

Irritation to respiratory tract

Assessment/classification

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

Narcotic effects

Assessment/classification

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

STOT-repeated exposure

Assessment/classification

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

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Aspiration hazard**Experimental data**

	Value	Method	Source, Remark
Cinematic viscosity (40°C):	18 mm ² /s		
Viscosity	kinematic 18 mm ² /s (40°C)		

Assessment/classification

May be fatal if swallowed and enters airways.

Additional information

Risk of eye and respiratory tract irritation due to high temperatures of vapours and oil mist
In case of swallowing, irritations of the gastric mucous membrane, nausea, vomiting and diarrhoea may occur.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity**

	Effective dose	Method	Source, Remark
Acute (short-term) fish toxicity	LC50: > 100 mg/L Test duration 96 h		CAS No.72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified
Acute (short-term) fish toxicity	LC50: 0.1 mg/L Test duration 96 h	OECD 203	CAS No.1218787-32-6 2,2'- (C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol
Acute (short-term) fish toxicity	LC50: 0.26 mg/L Test duration 96 h		3-((C9-11-iso,C10- rich)alkyloxy)propan-1- amine
Acute (short-term) fish toxicity	LC50: 0.26 mg/L Test duration 96 h		CAS No.124-28-7 dimantine
Chronic (long-term) fish toxicity	NOEC > 1000 mg/L Test duration 14 d		CAS No.72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified
Acute (short-term) toxicity to crustacea	EC50 0.043 mg/L Daphnia pulex (water flea) Test duration 48 h	OECD 202	CAS No.1218787-32-6 2,2'- (C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol
Acute (short-term) toxicity to crustacea	EC50 0.0558 mg/L Daphnia pulex (water flea) Test duration 48 h		CAS No.124-28-7 dimantine
Chronic (long-term) toxicity to crustacea	NOEC 10 mg/L Daphnia pulex (water flea) Test duration 21 d	OECD 211	CAS No.72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified

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	Effective dose	Method	Source, Remark
Chronic (long-term) toxicity to crustacea	EC10 0.279 mg/L Test duration 21 d	OECD 211	CAS No.1218787-32-6 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol
Chronic (long-term) toxicity to crustacea	EC10 0.0107 mg/L Test duration 21 d	OECD 211	CAS No.1218787-32-6 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol
Acute (short-term) toxicity to aquatic algae and cyanobacteria	NOEC 100 mg/L Pseudokirchneriella subcapitata (green alga) Test duration 72 h	OECD 201	CAS No.72623-87-1 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil - unspecified
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

Assessment/classification

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate (%): 63	OECD 301D/ EEC 92/69/V, C.4-E	CAS No.1218787-32-6 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol 28 d biodegradable
Biodegradation	Degradation rate (%): 68	OECD 301D/ EEC 92/69/V, C.4-E	CAS No.124-28-7 dimantine 28 d biodegradable
Biodegradation	Degradation rate (%): 63	OECD 301D/ EEC 92/69/V, C.4-E	CAS No.1218787-32-6 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol 28 d Easily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects**Additional ecotoxicological information****Additional information**

Product is not allowed to be discharged into the ground water or aquatic environment.



SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product Waste name

130208 * other engine, gear and lubricating oils

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

Remark

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No	No	No

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

All transport carriers

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

not applicable

Water hazard class (WGK)

obviously hazardous to water (WGK 2)

according to the Ordinance on Facilities for Handling Substances that are Hazardous to Water (AwSV)

Restrictions of occupation

Observe national legislation regarding professional restrictions.

Observe employment restrictions for young people.

15.2 Chemical Safety Assessment

Substance safety analysis was not performed for this mixture.



SECTION 16: Other information

Indication of changes

* Data changed compared with the previous version

Current safety data sheets are available at:

<http://gms.aftersales.daimler.com>

Abbreviations and acronyms

See overview table at www.euphrac.eu

Key literature references and sources for data

Safety data sheets of suppliers

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

The mixture is classified according to the available hazard data for the constituents as defined in the classification criteria for mixtures for each hazard class in Appendix I of Regulation (EC) No 1272/2008.

Additional information

Adhere to existing national and local rules referring to chemicals.

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.

Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.