



A 001 989 24 03 13 Multi-grade oil for power steering, clutch, gearshift control, hydraulics

Print date 21.03.2019
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Version 2

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

1.1 Product identifier

Trade name/designation Multi-grade oil for power steering, clutch, gearshift control, hydraulics
Partno A 001 989 24 03 13

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

Use
Hydraulic oil

1.3 Details of the supplier of the safety data sheet

Supplier

Daimler AG

70546 Stuttgart
DEUTSCHLAND

Telephone +49 (0)711 17-97390
Telefax +49 (0)711 17-94831

E-mail (competent person):
Mercedes-Benz-SDB@daimler.com

1.4 Emergency telephone number

+49 (0)711 17-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

	Classification procedure
Asp. Tox. 1, H304	
Acute Tox. 4, H332	

hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.

2.2 Label elements

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

product identifiers

Trade name/designation Multi-grade oil for power steering, clutch, gearshift control, hydraulics

Hazard components for labelling

dec-1-ene, dimers, hydrogenated, Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Hazard pictograms



GHS07



GHS08



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Signal word

Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.
 H332 Harmful if inhaled.

Precautionary statements

P102 Keep out of reach of children.
 P261 Avoid breathing spray.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P331 Do NOT induce vomiting.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P501 Dispose of the content / the container in accordance with regional regulations.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains ethanol, 2,2'-iminobis-, N-tallow alkyl derivs; methyl methacrylate. May produce an allergic reaction.

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

Mix of highly refined mineral oils, synthetic hydrocarbons and additives.

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
68649-11-6	500-228-5	dec-1-ene, dimers, hydrogenated	50 < 100 %	Acute Tox. 4 H332 Asp. Tox. 1 H304
72623-86-0	276-737-9	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	20 < 30 %	Asp. Tox. 1 H304
61791-44-4	263-177-5	ethanol, 2,2'-iminobis-, N-tallow alkyl derivs	0.1 < 1 %	Acute Tox. 4 H302 Skin Corr. 1B H314 Skin Sens. 1 H317 Aquatic Chronic 3 H412
80-62-6	201-297-1	methyl methacrylate	0.1 < 1 %	Flam. Liq. 2 H225 STOT SE 3 H335 Skin Irrit. 2 H315 Skin Sens. 1 H317

REACH No.	Substance name
01-2119493069-28	dec-1-ene, dimers, hydrogenated
01-2119474878-16	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based



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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Observe risk of aspiration if vomiting occurs.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water.

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

No data available

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

Fire gas of organic material has to be classed invariably as respiratory poison.

5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Use protective equipment.

Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

Dispose of contaminated extinguishant water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Special danger of slipping by leaking/spilling product.

For emergency responders

Special danger of slipping by leaking/spilling product.

Keep away unprotected persons



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6.2 Environmental precautions

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

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 dust
Provide for appropriate ventilation/aspiration at the work station
No special fire protection measures are necessary.
Adhere to general precaution rules when handling chemicals

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.
Keep away from food and drink.
Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Storage class

LGK10 Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions

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

7.3 Specific end use(s)

Recommendation

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
80-62-6	201-297-1	Methyl methacrylate	50 [ml/m3(ppm)] 2009/161/EU

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Sufficient ventilation and exhaustion.
Local exhaustion or technical room ventilation.

Personal protection equipment

Eye/face protection

Safety glasses recommended during transfer
DIN EN 166



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Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber, 0.4 mm coating thickness, for short-term contact/splash

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.

Body protection:

Protective clothing

Respiratory protection

Respiratory protection necessary at:

insufficient ventilation

Temporary filter unit, filter AX

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

green

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
pH	not determined		
Melting point/freezing point	not determined		
Initial boiling point and boiling range	not determined		
Flash point	156 °C		Tolerance: ± 10%
Evaporation rate	not determined		
flammability	not determined		
Upper/lower flammability or explosive limits	not determined		
Vapour pressure	< 0.001 hPa (20°C)		
Vapour density	not determined		
Density	0.82 g/cm ³ (15°C)		
Solubility(ies)	Water solubility (g/L)		practically insoluble
Partition coefficient: n-octanol/water	not determined		
Auto-ignition temperature			The product is not self-igniting.
Decomposition temperature	not determined		
Viscosity	kinematic 18.7 mm ² /s (40°C)		
Viscosity	dynamic		not determined
Explosive properties:			The product is not explosive



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	Value	Method	Source, Remark
Oxidising properties	not determined		

9.2 Other information

Other safety information
 none

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactions with strong acids.
 Reactions with strong alkalies and oxidising agents.

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 reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Acid, strong
 Base, strong
 Oxidising agent, strong

10.6 Hazardous decomposition products

Thermal decomposition of the product may produce carbon monoxide, carbon dioxide and unidentified organic compounds.

Additional information

No risk of production of decomposition products when appropriately handled and stored

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Animal data

	Effective dose	Method	Source, Remark
Acute oral toxicity	> 5000 mg/kg Rat	OECD 401	CAS No.72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based
Acute oral toxicity	LD50: 1350 mg/kg Rat		CAS No.61791-44-4 ethanol, 2,2'-iminobis-, N-tallow alkyl derivs
Acute oral toxicity	> 5000 mg/kg Rat		CAS No.68649-11-6 dec-1-ene, dimers, hydrogenated
Acute dermal toxicity	LD50: 8000 mg/kg Rabbit		CAS No.61791-44-4 ethanol, 2,2'-iminobis-, N-tallow alkyl derivs
Acute dermal toxicity	LD50: > 3000 mg/kg Rabbit		CAS No.68649-11-6 dec-1-ene, dimers, hydrogenated



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	Effective dose	Method	Source, Remark
Acute dermal toxicity	LD50: > 2001 mg/kg Rabbit		CAS No.72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based
Acute inhalation toxicity	Acute inhalation toxicity (gas) > 5.53 mg/L Rat Exposure time 4 h	OECD 403	CAS No.72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based
Acute inhalation toxicity	Acute inhalation toxicity (dust/mist) ATEmix calculated: 3.51 mg/L		
Acute inhalation toxicity	Acute inhalation toxicity (dust/mist) LC50: 1.17 mg/L Rat Exposure time 4 h		CAS No.68649-11-6 dec-1- ene, dimers, hydrogenated
Acute inhalation toxicity	Acute inhalation toxicity (dust/mist) LC50: > 5.53 mg/L Rat Exposure time 4 h		CAS No.72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Assessment/classification

Harmful if inhaled.

Skin corrosion/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

	Value	Method	Result / evaluation	Remark
In vitro mutagenicity/genotoxicity			not mutagenic	

Carcinogenicity

Animal data

	Value	Method	Result / evaluation	Remark
Carcinogenicity			not cancerogenic	

Reproductive toxicity

Assessment/classification

not toxic for reproduction

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STOT-single exposure**STOT SE 1 and 2****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.

Aspiration hazard**Experimental data**

	Value	Method	Source, Remark
Viscosity	kinematic 18.7 mm ² /s (40°C)		
Viscosity	dynamic		not determined

Assessment/classification

May be fatal if swallowed and enters airways.

Additional information

Toxicological data are not available.

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

	Effective dose	Method	Source, Remark
Acute (short-term) fish toxicity	LL50 > 100 mg/L Test duration 96 h	OECD 203	CAS No.72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based
Acute (short-term) fish toxicity	LC50: 1.1 mg/L Test duration 96 h		CAS No.61791-44-4 ethanol, 2,2'-iminobis-, N- tallow alkyl derivs
Acute (short-term) fish toxicity	LC50: > 1000 mg/L Test duration 96 h		CAS No.68649-11-6 dec-1- ene, dimers, hydrogenated
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EL50 > 10000 mg/L Test duration 48 h	OECD 202	CAS No.72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based
Acute (short-term) toxicity to crustacea	EC50 1.1 mg/L Daphnia pulex (water flea) Test duration 48 h		CAS No.61791-44-4 ethanol, 2,2'-iminobis-, N- tallow alkyl derivs
Acute (short-term) toxicity to crustacea	EC50 > 1000 mg/L Daphnia pulex (water flea) Test duration 48 h		CAS No.68649-11-6 dec-1- ene, dimers, hydrogenated
Acute (short-term) toxicity to crustacea	NOEC 10 mg/L Daphnia pulex (water flea) Test duration 21 d	OECD 211	CAS No.68649-11-6 dec-1- ene, dimers, hydrogenated

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	Effective dose	Method	Source, Remark
Chronic (long-term) toxicity to crustacea	not determined		
Acute (short-term) toxicity to aquatic algae and cyanobacteria	EC50 > 1000 mg/L Pseudokirchneriella subcapitata (green alga) Test duration 72 h		CAS No.68649-11-6 dec-1-ene, dimers, hydrogenated
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.72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

12.2 Persistence and degradability

No data available

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**

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
130111 *	synthetic hydraulic 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)	-	-	-

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	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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****Water hazard class (WGK)**

slightly hazardous to water (WGK 1)

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

Restrictions of occupation

Observe national legislation regarding professional restrictions.

15.2 Chemical Safety Assessment

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

SECTION 16: Other information**Indication of changes**

Aktuelle Sicherheitsdatenblätter finden Sie unter:

<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

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)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.