



A 001 986 28 71 10 Stain remover

Print date 27.02.2020

Revision date 12.02.2020

Version 18

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

1.1 Product identifier

Trade name/designation Stain remover

Partno A 001 986 28 71 10

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

Use
cleaner

1.3 Details of the supplier of the safety data sheet

Supplier

Mercedes-Benz USA, LLC.
One Mercedes-Benz Dr.
Sandy Springs, GA 30328-4312
+1 770 705 0600

Manufacturer

Mercedes-Benz AG

70546 Stuttgart
Telephone +49 (0)711 17-0

1.4 Emergency telephone number

+49 (0)711 17-0
gms.daimler.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flam. Liq. 3, H226

Asp. Tox. 1, H304

STOT SE 3, H336

Aquatic Chronic 3, H412

hazard statements for physical hazards

H226 Flammable liquid and vapour.

hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

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2.2 Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]****product identifiers****Trade name/designation** Stain remover**Hazard components for labelling**

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hazard pictograms

GHS02



GHS07



GHS08

Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P331 Do NOT induce vomiting.

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

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with regional regulations.

Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Other labelling

≥ 30% aliphatic hydrocarbons

2.3 Other hazards**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**Hazardous ingredients**

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
	927-241-2	hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	50 - 100 %	Flam. Liq. 3 H226 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Chronic 3 H412



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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
111-76-2	203-905-0	2-butoxyethanol	2.5 - 5 %	Acute Tox. 4 H332 Acute Tox. 4 H312 Acute Tox. 4 H302 Eye Irrit. 2 H319 Skin Irrit. 2 H315

REACH No.	Substance name
01-2119471843-32	hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
01-2119475108-36	2-butoxyethanol

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Remove contact lens

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.

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam

Dry 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.



Additional information

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

Provide adequate ventilation.
Use personal protection equipment.
Keep away unprotected persons

For emergency responders

Provide adequate ventilation.
Personal protection equipment
Keep away unprotected persons

6.2 Environmental precautions

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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).
After taking up the material dispose according to regulation.

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

Provide for appropriate ventilation/aspiration at the work station
Keep away from sources of ignition. - No smoking.
Take precautionary measures against static discharges.
All work processes must always be designed so that the following is as low as possible:
Skin contact
Do not inhale gases/vapours/aerosols.

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.
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

LGK3 Flammable liquids

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.
Vor Hitze, Funken, offene Flamme und andere Zündquellen schützen.

7.3 Specific end use(s)

Recommendation

See section 1.2

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

CAS No.	EC No.	Substance name	occupational exposure limit value
111-76-2	203-905-0	2-Butoxyethanol	20 [ml/m ³ (ppm)] 98 [mg/m ³] Short-term(ml/m ³) 50 Short-term(mg/m ³) 246 H: skin resorptive 2000/39/EC
111-76-2		2-Butoxyethanol	20 [ml/m ³ (ppm)] 98 [mg/m ³] Short-term(ml/m ³) 50 (1) Short-term(mg/m ³) 246 (1) (IE)
111-76-2		2-Butoxyethanol	25 [ml/m ³ (ppm)] 123 [mg/m ³] Short-term(ml/m ³) 50 Short-term(mg/m ³) 246 (UK)

biological limit values

CAS No.	Substance name	Limit value	parameter/Test material/Sample time	Source, Remark
111-76-2	2-butoxyethanol	150 mg/g Kreatinin	Butoxyessigsäure (nach Hydrolyse)/ Urine (U)/ Expositionsende bzw. Schichtende, bei Langzeitexposition: nach mehreren vorangegangenen Schichten	BLV (DE) TRGS 903

DNEL worker

CAS No.	Substance name	DNEL value	DNEL type	Remark
111-76-2	2-butoxyethanol	89 mg/kg bw/day	acute dermal, short-term (systemic)	
111-76-2	2-butoxyethanol	663 mg/m ³	acute inhalative (systemic)	
111-76-2	2-butoxyethanol	246 mg/m ³	acute inhalative (local)	
111-76-2	2-butoxyethanol	75 mg/kg bw/day	long-term dermal (systemic)	
111-76-2	2-butoxyethanol	98 mg/m ³	acute inhalative (systemic)	
1174921-73-3	hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	77 mg/kg bw/day	long-term dermal (systemic)	
1174921-73-3	hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	871 mg/m ³	long-term inhalative (systemic)	

DNEL Consumer

CAS No.	Substance name	DNEL value	DNEL type	Remark
111-76-2	2-butoxyethanol	44.5 mg/kg bw/day	acute dermal, short-term (systemic)	
111-76-2	2-butoxyethanol	426 mg/m ³	acute inhalative (systemic)	
111-76-2	2-butoxyethanol	13.4 mg/kg bw/day	short-term oral (acute)	
111-76-2	2-butoxyethanol	123 mg/m ³	acute inhalative (local)	
111-76-2	2-butoxyethanol	38 mg/kg bw/day	acute dermal, short-term (systemic)	

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CAS No.	Substance name	DNEL value	DNEL type	Remark
111-76-2	2-butoxyethanol	49 mg/m ³	long-term inhalative (systemic)	
111-76-2	2-butoxyethanol	3.2 mg/kg bw/day	short-term oral (acute)	
1174921-73-3	hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	46 mg/kg bw/day	long-term oral (repeated)	
1174921-73-3	hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	46 mg/kg bw/day	long-term dermal (systemic)	
1174921-73-3	hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	185 mg/m ³	long-term inhalative (systemic)	

PNEC

CAS No.	Substance name	PNEC Value	PNEC type	Remark
111-76-2	2-butoxyethanol	8.8 mg/L	aquatic, freshwater	
111-76-2	2-butoxyethanol	0.88 mg/L	aquatic, marine water	
111-76-2	2-butoxyethanol	34.6 mg/kg	sediment, freshwater	
111-76-2	2-butoxyethanol	2.8 mg/kg	soil, freshwater	
111-76-2	2-butoxyethanol	463 mg/L	sewage treatment plant (STP)	
111-76-2	2-butoxyethanol	3.46 mg/kg	sediment, marine water	

8.2 Exposure controls**Appropriate engineering controls****Technical measures to prevent exposure**

Sufficient ventilation and exhaustion.

Personal protection equipment**Eye/face protection**safety goggles
DIN EN 166**Hand protection**

Glove materials data [type, thickness, breakthrough time/duration of use, permeation rate]: Nitrile rubber (protection index 6, >480 min, thickness 0.9-1.0 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.

Body protection:

Protective clothing

Respiratory protectionRespiratory protection necessary at:
aerosol or mist formation
high concentrations**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Physical state**

liquid

Colour

colourless

Odour

product-specific



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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			
Flash point	28 °C		
Evaporation rate	not determined		
flammability	solid		not applicable
flammability	gaseous		not applicable
Upper/lower flammability or explosive limits	not determined		
Vapour pressure	not determined		
Vapour density	not determined		
Density	0.76 (20°C)		
Solubility(ies)	Water solubility (g/L)		No or low immiscibility
Partition coefficient: n-octanol/water	0.81		CAS No.111-76-2 2-butoxyethanol
Auto-ignition temperature			The product is not self-igniting.
Decomposition temperature	not determined		
Viscosity	not determined		
Explosive properties:			Does not apply; nevertheless can be produced explosive vapour/air mixtures
Oxidising properties	not determined		

9.2 Other information

Other safety information

none

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

Keep away from heat, flames, sparks and other sources of ignition.

10.5 Incompatible materials

No data available



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10.6 Hazardous decomposition products

No hazardous decomposition products known.

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	4951 mg/kg Rat	OECD 401	CAS No. hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Acute oral toxicity	LD50: 1300 mg/kg Rat	OECD 401	CAS No. 111-76-2 2-butoxyethanol
Acute dermal toxicity	> 5000 mg/kg Rabbit	OECD 402	CAS No. hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Acute dermal toxicity	LD50: > 2000 mg/kg Guinea pig		CAS No. 111-76-2 2-butoxyethanol
Acute inhalation toxicity	Acute inhalation toxicity (aerosol) 4951 mg/L Rat Exposure time 4 h	OECD 403	CAS No. hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Acute inhalation toxicity	Acute inhalation toxicity (gas) 4951 mg/L Rat Exposure time 4 h		CAS No. hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Acute inhalation toxicity	Acute inhalation toxicity (gas) LC0: > 3.1 mg/L Meerschweinchen Exposure time 1 h	OECD 403	CAS No. 111-76-2 2-butoxyethanol
Acute inhalation toxicity	LC50: > 3.9 mg/L Rat Exposure time 4 h		CAS No. 111-76-2 2-butoxyethanol

Assessment/classification

The classification criteria have not been met according to the available data.

Skin corrosion/irritation

Assessment/classification

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

Frequent or prolonged contact with the skin can degrease the skin and lead to skin complaints and dermatitis.

Eye damage/irritation

Assessment/classification

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

Repeated or prolonged contact with the eyes may cause eye irritation.

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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.

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**

May cause drowsiness or dizziness.

STOT-repeated exposure**Assessment/classification**

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

Aspiration hazard**Assessment/classification**

May be fatal if swallowed and enters airways.

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

	Effective dose	Method	Source, Remark
Acute (short-term) fish toxicity	LL50 >10- 30 mg/L Oncorhynchus mykiss (Rainbow trout) Test duration 96 h		CAS No. hydrocarbons, C9- C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Acute (short-term) fish toxicity	LC50: 1464 mg/L Oncorhynchus mykiss (Rainbow trout) Test duration 96 h	OECD 203	CAS No.111-76-2 2- butoxyethanol
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EL50 >22- 46 mg/L Daphnia magna (Big water flea) Test duration 48 h		CAS No. hydrocarbons, C9- C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

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	Effective dose	Method	Source, Remark
Acute (short-term) toxicity to crustacea	EC50 1550 mg/L Daphnia magna (Big water flea) Test duration 48 h	OECD 202	CAS No. 111-76-2 2-butoxyethanol
Chronic (long-term) toxicity to crustacea	NOEC 100 mg/L Daphnia magna (Big water flea) Test duration 21 d		CAS No. 111-76-2 2-butoxyethanol
Acute (short-term) toxicity to aquatic algae and cyanobacteria	EC50 > 1000 mg/L Pseudokirchneriella subcapitata Test duration 72 h		CAS No. hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Acute (short-term) toxicity to aquatic algae and cyanobacteria	NOELR < 1 mg/L Pseudokirchneriella subcapitata (green alga) Test duration 72 h		CAS No. hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Acute (short-term) toxicity to aquatic algae and cyanobacteria	EbC50: 911 mg/L Pseudokirchneriella subcapitata (green alga) Test duration 72 h	OECD 201	CAS No. 111-76-2 2-butoxyethanol
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

Assessment/classification

Harmful to aquatic life.
Harmful to fish.

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate (%): 90.4	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No. 111-76-2 2-butoxyethanol 28 d Easily biodegradable

12.3 Bioaccumulative potential

	Value	Method	Source, Remark
Bioconcentration factor (BCF)	Bioconcentration factor (BCF) 3.2		CAS No. 111-76-2 2-butoxyethanol
Partition coefficient: n-octanol/water	0.81		CAS No. 111-76-2 2-butoxyethanol

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

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SECTION 13: Disposal considerations**13.1 Waste treatment methods****Appropriate disposal / Product**

Do not dispose together with domestic waste
 Dispose of waste according to applicable legislation.
 Avoid penetration into sewage system

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	3295	3295	3295
14.2 UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S. (Kohlenwasserstoffe, C9-C10, n-Alkane, Isoalkane, Cyclene, <2% Aromaten)	HYDROCARBONS, LIQUID, N.O.S. (Kohlenwasserstoffe, C9-C10, n-Alkane, Isoalkane, Cyclene, <2% Aromaten)	Hydrocarbons, liquid, n.o.s. (Kohlenwasserstoffe, C9-C10, n-Alkane, Isoalkane, Cyclene, <2% Aromaten)
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	III
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

Land transport (ADR/RID)

UN number	3295
UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S. (Kohlenwasserstoffe, C9-C10, n-Alkane, Isoalkane, Cyclene, <2% Aromaten)
Transport hazard class(es)	3
Hazard label(s)	3
Classification code:	F1
Packing group	III
Environmental hazards	No
Limited quantity (LQ)	5 L
Special Provisions	-
tunnel restriction code	D/E

Remark

Transport as "limited quantity" according to chapter 3.4 ADR/RID

Sea transport (IMDG)

UN number	3295
UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S. (Kohlenwasserstoffe, C9-C10, n-Alkane, Isoalkane, Cyclene, <2% Aromaten)
Transport hazard class(es)	3
Packing group	III



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Environmental hazards	No
Limited quantity (LQ)	5 L
Marine pollutant	-
EMS	F-E, S-D

Air transport (ICAO-TI / IATA-DGR)

UN number	3295
UN proper shipping name	Hydrocarbons, liquid, n.o.s. (Kohlenwasserstoffe, C9-C10, n-Alkane, Isoalkane, Cyclene, <2% Aromaten)
Transport hazard class(es)	3
Packing group	III
Environmental hazards	No

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.

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

Current safety data sheets are available at:

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

* Data changed compared with the previous version

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)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.



Mercedes-Benz

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1907/2006 (REACH)

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H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.