



A 001 986 94 71

Cleaning agents for plastics, prevents stress cracking

Print date 26.02.2023
Revision date 06.02.2023
Version 2.1 (en)
replaces version of 27.09.2021 (2.0)

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

1.1 Product identifier

Trade name/designation Cleaning agents for plastics, prevents stress cracking
Product category PC-CLN-17.3 Interior cleaning and care products (excludes air care products, and products for upholstery or leather)

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

Use of the substance/mixture
cleaner

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 +49 711 17-0
E-mail (competent person):
mercedes-benz-sdb@daimler.com

1.4 Emergency telephone number

+49 711 17-0
gms.aftersales.mercedes-benz.com
Giftnotruf der Charité – Universitätsmedizin Berlin +49 (0)30 30686700

! SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Remark

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

! 2.2 Label elements

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

! **Precautionary statements**

P102 Keep out of reach of children.

Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.



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! Additional information

The labelling of this product was determined entirely or in part on the basis of test data.

! 2.3 Other hazards

! Adverse human health effects and symptoms

Der Stoff/dieses Gemisch enthält keine Bestandteile, die gemäß REACH Artikel 57(f) oder der delegierten Verordnung (EU) 2017/2100 der Kommission oder der delegierten Verordnung (EU) 2018/605 der Kommission in Mengen von 0,1 % oder mehr endokrinschädliche Eigenschaften aufweisen.

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]	SCL/ M/ ATE
64-17-5	200-578-6	ethanol	5 - 10 %	Flam. Liq. 2; H225 Eye Irrit. 2; H319	Eye Irrit. 2;H319: > = 50 % ATE(oral): 6200 mg/kg ATE(dermal): > 20000 mg/kg ATE(inhalation vapour): 95.6 mg/L
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol	1 - 2.5 %	Eye Irrit. 2; H319	ATE(oral): 2410 mg/kg ATE(dermal): 2764 mg/kg ATE(Acute inhalation toxicity (aerosol)): > 29 ppm

REACH No.	Substance name
01-2119457610-43	ethanol
01-2119475104-44	2-(2-butoxyethoxy)ethanol

! Additional information

Constituents according to Detergents regulation (648/2004/EC):
 2-BROMO-2-NITROPROPANE-1,3-DIOL



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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

Wash with soap and water.

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.

Following 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

Foam
Dry extinguishing powder
Carbon dioxide (CO₂)
Water mist

Unsuitable extinguishing media

Full 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.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No special measures required.

For emergency responders

No special measures required.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.
Dilute with a lot of water

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

No special technical protective measures are necessary.
No special fire protection measures are necessary.
Adhere to general precaution rules when handling chemicals

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.
Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Storage class

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

Further information on storage conditions

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

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
112-34-5	203-961-6	2-(2-Butoxyethoxy)ethanol	10 [ml/m ³ (ppm)] 67,5 [mg/m ³] Short-term(ml/m ³) 15 Short-term(mg/m ³) 101,2 2006/15/EC
112-34-5		Diethylene glycol monobutyl ether	10 [ml/m ³ (ppm)] 67,5 [mg/m ³] Short-term(ml/m ³) 15 (1) Short-term(mg/m ³) 101,2 (1) (1) 15 minutes reference period (IE)
112-34-5		Diethylene glycol monobutyl ether	10 [ml/m ³ (ppm)] 67,5 [mg/m ³] Short-term(ml/m ³) 15 Short-term(mg/m ³) 101,2 (UK)

! DNEL worker

CAS No.	Substance name	DNEL value	DNEL type	Remark
112-34-5	2-(2-butoxyethoxy)ethanol	101.2 mg/m ³	acute inhalative (local)	
112-34-5	2-(2-butoxyethoxy)ethanol	67.5 mg/m ³	long-term inhalative (systemic)	
112-34-5	2-(2-butoxyethoxy)ethanol	67.5 mg/m ³	long-term inhalative (local)	
64-17-5	ethanol	1900 mg/m ³	acute inhalative (local)	
64-17-5	ethanol	343 mg/kg	long-term dermal (systemic)	
64-17-5	ethanol	950 mg/m ³	long-term inhalative (systemic)	

! DNEL Consumer

CAS No.	Substance name	DNEL value	DNEL type	Remark
112-34-5	2-(2-butoxyethoxy)ethanol	50.6 mg/m ³	acute inhalative (local)	
112-34-5	2-(2-butoxyethoxy)ethanol	1.25 mg/kg bw/day	long-term oral (repeated)	
112-34-5	2-(2-butoxyethoxy)ethanol	34 mg/m ³	long-term inhalative (systemic)	
112-34-5	2-(2-butoxyethoxy)ethanol	10 mg/kg bw/day	long-term dermal (systemic)	
112-34-5	2-(2-butoxyethoxy)ethanol	34 mg/m ³	long-term inhalative (local)	
64-17-5	ethanol	950 mg/kg	acute inhalative (local)	
64-17-5	ethanol	206 mg/kg	long-term dermal (systemic)	
64-17-5	ethanol	114 mg/m ³	long-term inhalative (systemic)	
64-17-5	ethanol	87 mg/kg	long-term oral (repeated)	

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CAS No.	Substance name	DNEL value	DNEL type	Remark
64-17-5	ethanol	950 mg/m ³	acute dermal, short-term (local)	

!

PNEC

CAS No.	Substance name	PNEC Value	PNEC type	Remark
112-34-5	2-(2-butoxyethoxy)ethanol	1 mg/L	aquatic, freshwater	
112-34-5	2-(2-butoxyethoxy)ethanol	0.1 mg/L	aquatic, marine water	
112-34-5	2-(2-butoxyethoxy)ethanol	3.9 mg/L	aquatic, intermittent release	
112-34-5	2-(2-butoxyethoxy)ethanol	4 mg/kg	sediment, freshwater	
112-34-5	2-(2-butoxyethoxy)ethanol	0.4 mg/kg	sediment, marine water	
112-34-5	2-(2-butoxyethoxy)ethanol	0.4 mg/kg	soil	
112-34-5	2-(2-butoxyethoxy)ethanol	200 mg/L	sewage treatment plant (STP)	
64-17-5	ethanol	0.96 mg/L	aquatic, freshwater	
64-17-5	ethanol	0.79 mg/L	aquatic, marine water	
64-17-5	ethanol	3.6 mg/kg	sediment, freshwater	
64-17-5	ethanol	2.9 mg/kg	sediment, marine water	
64-17-5	ethanol	0.63 mg/kg	soil	
64-17-5	ethanol	0.72 mg/kg	Secondary Poisoning	
64-17-5	ethanol	580 mg/L	sewage treatment plant (STP)	

8.2 Exposure controls**Personal protection equipment****Eye/face protection**

Safety glasses recommended during transfer
 EN 166

Hand protection

Glove material specification [type, thickness, permeation time / wearing time, wetting resistance]: nitrile rubber (> 480 min, 0.7 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.

Respiratory protection

Not required

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Physical state**

liquid

Colour

clear



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Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	> 78 °C		
Boiling point or initial boiling point and boiling range	78 °C		CAS No.64-17-5 ethanol
flammability	solid		not applicable
flammability	gaseous		not applicable
Lower and upper explosion limit	not determined		
Flash point			not applicable
Auto-ignition temperature			The product is not self-igniting.
Decomposition temperature	not determined		
pH	in delivery state 10.5 (20°C)		
Viscosity	not determined		
Solubility(ies)	Water solubility		completely miscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	0.98 (20°C)		
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

Other safety characteristics

	Value	Method	Source, Remark
Explosive properties:			The product is not explosive

Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions with proper storage and handling.



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10.2 Chemical stability

The mixture 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

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute toxicity

Animal data

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity	CAS No.112-34-5 2-(2-butoxyethoxy)ethanol LD50: 2410 mg/kg Species Rat	OECD 401	
	CAS No.64-17-5 ethanol LD50: 6200 mg/kg Species Rat	OECD 401	
Acute dermal toxicity	CAS No.64-17-5 ethanol LD50: > 20000 mg/kg Species Rat	OECD 402	
	CAS No.112-34-5 2-(2-butoxyethoxy)ethanol LD50: 2764 mg/kg Species Rabbit	OECD 402	
Acute inhalation toxicity	CAS No.64-17-5 ethanol Acute inhalation toxicity (vapour) LC50: 95.6 mg/L Species Rat Exposure time 4 h		
	CAS No.112-34-5 2-(2-butoxyethoxy)ethanol Acute inhalation toxicity (aerosol) LC50: > 29 ppm Species Rat Exposure time 2 h		

Assessment/classification

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



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Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
non-irritant.		

Assessment/classification

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

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
CAS No.64-17-5 ethanol irritant1Specific Concentration Limit (SCL) Eye Irrit. 2; H319: 50 < C ≤ 100%Species Rabbit	OECD 405	CAS No.64-17-5 ethanol

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

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.	CAS No.112-34-5 2-(2- butoxyethoxy)ethanol Species Guinea pig		

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.



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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

Animal data

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)	CAS No.64-17-5 ethanol NOAEL(C): 1760 mg/kg Species Rat Exposure time 90 Tage	OECD 408		Leber	

Assessment/classification

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

Aspiration hazard

Assessment/classification

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

11.2 Information on other hazards

Symptoms related to the physical, chemical and toxicological characteristics

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			Der Stoff/dieses Gemisch enthält keine Bestandteile, die gemäß REACH Artikel 57(f) oder der delegierten Verordnung (EU) 2017/2100 der Kommission oder der delegierten Verordnung (EU) 2018/605 der Kommission in Mengen von 0,1 % oder mehr endokrinschädliche Eigenschaften aufweisen.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No.64-17-5 ethanol LC50: > 100 mg/L Species Leuciscus idus (golden orfe) Test duration 48 h	OECD 203	



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	Effective dose	Method,Evaluation	Source, Remark
Chronic (long-term) fish toxicity	CAS No.112-34-5 2-(2-butoxyethoxy)ethanol LC50: > 100 mg/L not determined		
Acute (short-term) toxicity to crustacea	CAS No.64-17-5 ethanol EC50 9268- 14221 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	bibliography	
	CAS No.112-34-5 2-(2-butoxyethoxy)ethanol EC50 > 100 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
Chronic (long-term) toxicity to aquatic invertebrate	CAS No.64-17-5 ethanol EC50 > 100 mg/L Species Daphnia magna (Big water flea) Test duration 24 h not determined	OECD 202	
Acute (short-term) toxicity to algae and cyanobacteria	CAS No.112-34-5 2-(2-butoxyethoxy)ethanol EC50 > 100 mg/L Species Desmodesmus subspicatus		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No.64-17-5 ethanol EL10 > 100 mg/L not determined	OECD 201	
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	CAS No.112-34-5 2-(2-butoxyethoxy)ethanol EC10 1170 mg/L Species Pseudomonas putida Test duration 16 h		

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 Endocrine disrupting properties



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Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties		Der Stoff/dieses Gemisch enthält keine Bestandteile, die gemäß REACH Artikel 57(f) oder der delegierten Verordnung (EU) 2017/2100 der Kommission oder der delegierten Verordnung (EU) 2018/605 der Kommission in Mengen von 0,1 % oder mehr endokrinschädliche Eigenschaften aufweisen.

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

Do not allow uncontrolled discharge of product into the environment.
 Do not allow undiluted or large quantities to escape into groundwater, water bodies or the sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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 or ID 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 Maritime transport in bulk according to IMO instruments

not applicable

All transport carriers

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



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SECTION 15: Regulatory information

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

Other regulations (EU)

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC

VOC content, delivery state 10 %

not applicable

15.2 Chemical Safety Assessment

National regulations

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:
<https://gms.aftersales.mercedes-benz.com>

! Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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.

Einstufungsverfahren:

Berechnung

Prüfdaten

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.

H319 Causes serious eye irritation.