



A 001 986 94 71 Cleaning agents for plastics, prevents stress cracking

Print date 10.10.2021
Revision date 27.09.2021
Version 2

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
Partno A 001 986 94 71

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
Germany

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

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

Special rules for supplemental label elements for certain mixtures
EUH210 Safety data sheet available on request.

Other labelling

Preservation agent (2-BROMO-2-NITROPROPANE-1,3-DIOL)

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.



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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]
64-17-5	200-578-6	ethanol	5 - 10 %	Flam. Liq. 2 H225 Eye Irrit. 2 H319
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol	1 - 2.5 %	Eye Irrit. 2 H319
REACH No.	Substance name			
01-2119457610-43	ethanol			
01-2119475104-44	2-(2-butoxyethoxy)ethanol			

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.

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

Foam

Dry extinguishing powder

Carbon dioxide (CO₂)

Water mist

Unsuitable extinguishing media

High power water jet



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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.

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/m3(ppm)] 67,5 [mg/m3] Short-term(ml/m3) 15 Short-term(mg/m3) 101,2 2006/15/EC
112-34-5		Diethylene glycol monobutyl ether	10 [ml/m3(ppm)] 67,5 [mg/m3] Short-term(ml/m3) 15 (1) Short-term(mg/m3) 101,2 (1) (IE)
64-17-5		Ethanol	Short-term(ml/m3) 1000 (1) (IE)
112-34-5		Diethylene glycol monobutyl ether	10 [ml/m3(ppm)] 67,5 [mg/m3] Short-term(ml/m3) 15 Short-term(mg/m3) 101,2 (UK)
64-17-5		Ethanol	1000 [ml/m3(ppm)] 1920 [mg/m3] (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	343 mg/kg bw/day	long-term dermal (systemic)	
64-17-5	ethanol	1900 mg/m ³	acute inhalative (local)	
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	87 mg/kg	long-term oral (repeated)	
64-17-5	ethanol	206 mg/kg bw/day	long-term dermal (systemic)	
64-17-5	ethanol	950 mg/m ³	acute inhalative (local)	
64-17-5	ethanol	114 mg/m ³	long-term inhalative (systemic)	



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PNEC

CAS No.	Substance name	PNEC Value	PNEC type	Remark
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	2.75 mg/L	aquatic, intermittent release	
64-17-5	ethanol	3.6 mg/kg	sediment, freshwater	
64-17-5	ethanol	0.63 mg/kg	soil, freshwater	
64-17-5	ethanol	580 mg/L	sewage treatment plant (STP)	
64-17-5	ethanol	720 mg/kg	Secondary Poisoning	
64-17-5	ethanol	2.9 mg/kg	sediment, marine water	
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, freshwater	
112-34-5	2-(2-butoxyethoxy)ethanol	200 mg/L	sewage treatment plant (STP)	

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Safety glasses recommended during transfer
DIN 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

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		



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	Value	Method	Source, Remark
pH	in delivery state 10.5 (20°C)		
Melting point/freezing point	not determined		
Initial boiling point and boiling range	> 78 °C		
Flash point			not applicable
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	0.98 (20°C)		
Solubility(ies)	Water solubility (g/L)		completely miscible
Partition coefficient: n-octanol/water	not determined		
Auto-ignition temperature			The product is not self-igniting.
Decomposition temperature	not determined		
Viscosity	not determined		
Explosive properties:			The product is not explosive
Oxidising properties	not determined		

9.2 Other information

Other safety information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions with proper storage and handling.

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.

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Animal data**

	Effective dose	Method	Source, Remark
Acute oral toxicity	LD50: 2410 mg/kg Rat	OECD 401	CAS No.112-34-5 2-(2-butoxyethoxy)ethanol
Acute oral toxicity	LD50: 10470 mg/kg Rat	OECD 401	CAS No.64-17-5 ethanol
Acute dermal toxicity	LD50: > 2000 mg/kg Rabbit	OECD 402	CAS No.64-17-5 ethanol
Acute dermal toxicity	LD50: 2764 mg/kg Rabbit	OECD 402	CAS No.112-34-5 2-(2-butoxyethoxy)ethanol
Acute inhalation toxicity	Acute inhalation toxicity (vapour) LC50: 124.7 mg/L Rat Exposure time 4 h	OECD 403	CAS No.64-17-5 ethanol
Acute inhalation toxicity	Acute inhalation toxicity (aerosol) LC50: > 29 ppm Rat Exposure time 2 h		CAS No.112-34-5 2-(2-butoxyethoxy)ethanol

Assessment/classification

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

Skin corrosion/irritation**Animal data**

Result / evaluation	Method	Source, Remark
non-irritant Rabbit	OECD 404	CAS No.64-17-5 ethanol

Not an irritant.

Assessment/classification

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

Eye damage/irritation**Animal data**

Result / evaluation	Method	Source, Remark
Specific Concentration Limit (SCL) Eye Irrit. 2; H319: C ≥ 5 % irritant 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.64-17-5 ethanol Guinea pig	OECD 406	Local Lymph Node Assay (LLNA)

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Result / evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.	CAS No.64-17-5 ethanol Mouse	OECD 429	Local Lymph Node Assay (LLNA)
not sensitising.	CAS No.112-34-5 2-(2-butoxyethoxy)ethanol Guinea pig		

Assessment/classification

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

Germ cell mutagenicity

	Value	Method	Result / evaluation	Remark
In vitro mutagenicity/genotoxicity	CAS No.64-17-5 ethanol	OECD 471 (Ames test)	negative.	
In vitro mutagenicity/genotoxicity	CAS No.64-17-5 ethanol Chromosomal aberrations mammalian cells	OECD 473	negative.	
In vitro mutagenicity/genotoxicity	CAS No.64-17-5 ethanol Gene-mutations mammalian cells	OECD 476	negative.	
In vitro mutagenicity/genotoxicity	CAS No.64-17-5 ethanol Chromosomal aberrations mammalian cells	OECD TG 475	negative.	

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**Animal data**

	Value	Method	Result / evaluation	Remark
Adverse effects on sexual function and fertility	CAS No.64-17-5 ethanol NOAEL P 13800 mg/kg mouse	OECD 416		

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.



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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.

Aspiration hazard

Assessment/classification

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method	Source, Remark
Acute (short-term) fish toxicity	LC50: 14200 mg/L Pimephales promelas (fathead minnow) Test duration 96 h	OECD 203	CAS No.64-17-5 ethanol
Acute (short-term) fish toxicity	LC50: > 100 mg/L		CAS No.112-34-5 2-(2-butoxyethoxy)ethanol
Acute (short-term) fish toxicity	NOEC 250 mg/L Danio rerio Test duration 120 h	OECD 212	CAS No.64-17-5 ethanol
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 5012 mg/L Ceriodaphnia dubia Test duration 48 h		CAS No.64-17-5 ethanol
Acute (short-term) toxicity to crustacea	EC50 > 100 mg/L Daphnia magna (Big water flea) Test duration 48 h		CAS No.112-34-5 2-(2-butoxyethoxy)ethanol
Chronic (long-term) toxicity to crustacea	NOEC 9.6 mg/L Daphnia magna (Big water flea) Test duration 9 d		CAS No.64-17-5 ethanol
Acute (short-term) toxicity to aquatic algae and cyanobacteria	EC50 275 mg/L Chlorella vulgaris Test duration 72 h	OECD 201	CAS No.64-17-5 ethanol
Acute (short-term) toxicity to aquatic algae and cyanobacteria	EC10 11.5 mg/L Chlorella vulgaris Test duration 72 h	OECD 201	CAS No.64-17-5 ethanol
Acute (short-term) toxicity to aquatic algae and cyanobacteria	EC50 > 100 mg/L Desmodesmus subspicatus		CAS No.112-34-5 2-(2-butoxyethoxy)ethanol
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	IC50 > 1000 mg/L activated sludge Test duration 3 h	OECD 209	CAS No.64-17-5 ethanol
Toxicity to microorganisms	EC10 1170 mg/L Pseudomonas putida Test duration 16 h		CAS No.112-34-5 2-(2-butoxyethoxy)ethanol



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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.

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	-	-	-
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



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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

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

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)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.