



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

1.1 Product identifier

Trade name/designation Professional air intake system cleaner

Partno A 010 989 12 71 09

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

Aerosol 3, H229

hazard statements for physical hazards

H229 Pressurised container: May burst if heated.

2.2 Label elements

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

product identifiers

Trade name/designation Professional air intake system cleaner

Signal word

Warning

Hazard statements

H229 Pressurised container: May burst if heated.

**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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P280 Wear eye protection/face protection.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Supplemental Hazard information (EU)

20 % by mass of the contents are flammable.

2.3 Other hazards**Adverse physicochemical effects**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Adverse environmental effects

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

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]
64-17-5	200-578-6	ethanol	10 < 20 %	Flam. Liq. 2 H225 Eye Irrit. 2 H319

REACH No.	Substance name
01-2119457610-43	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

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

After eye contact

Rinse eyes with wide open eyelids for a couple of minutes under running water.

In case of eye irritation consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.



4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Headache
Drowsiness
Dizziness
Fatigue
Skin irritation

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
Extinguishing powder
Carbon dioxide (CO₂)
Water mist

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.
In the event of fire the following can be released:
Aldehydes
Carbon monoxide
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters:

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

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Heat action leads to pressure increase - risk of aerosol can bursting

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid skin and eye contact.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use personal protection equipment.
Remove all sources of ignition.

For emergency responders

Avoid skin and eye contact
Provide adequate ventilation.
Personal protection equipment
Remove all sources of ignition.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.
Suppress gases/vapours/mists with water spray jet.



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).
Take up mechanically and send for disposal.

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
Vapours can form explosive mixtures with air.

Avoid:

Eye contact

Skin contact

Inhalation of vapours or spray/mists

Take precautionary measures against static discharges.

Adhere to general precaution rules when handling chemicals

Advices on general occupational hygiene

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

Remove contaminated, saturated clothing immediately.

Keep away from food and drink.

Wash hands and face before breaks and after work and take a shower if necessary.

Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Storage class

LGK2B aerosols

Materials to avoid

Do not store together with:

Food and feedingstuffs

Oxidising agent

Pyrophoric or self-heating substances

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

Protect against:

Heat

UV-radiation/sunlight

Storage temperature may not exceed 50°C (=122°F).

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
64-17-5		Ethanol	Short-term(ml/m3) 1000 (1) (IE)



CAS No.	EC No.	Substance name	occupational exposure limit value
64-17-5		Ethanol	1000 [ml/m ³ (ppm)] 1920 [mg/m ³] (UK)

DNEL worker

CAS No.	Substance name	DNEL value	DNEL type	Remark
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
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)	

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	

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, 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.

Body protection:

Protective clothing



Respiratory protection

insufficient ventilation

aerosol or mist formation

Suitable respiratory protection apparatus:

Filtering device (full mask or mouthpiece) with filter:

Combination filtering device (EN 14387)

A

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Aerosol

Colour

colourless

Odour

like:

Alcohol

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
pH	8.5 (20 °C)	DIN 19268	
Melting point/freezing point	not determined		
Initial boiling point and boiling range	78 °C		
Flash point	35 °C		
Evaporation rate	not determined		
flammability	solid		not applicable
flammability	gaseous		not applicable
Upper/lower flammability or explosive limits	Upper explosion limit 15 Vol-%		
Upper/lower flammability or explosive limits	Lower explosion limit 3.5 Vol-%		
Vapour pressure	not determined		
Vapour density	not determined		
Density	Density and/or relative density 0.97 g/cm ³ (20 °C)	DIN 51757	
Solubility(ies)	Water solubility (g/L)		easily soluble
Partition coefficient: n-octanol/water	-0.31		CAS No.64-17-5 ethanol
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
Viscosity	kinematic		not applicable
Viscosity	dynamic		not applicable



	Value	Method	Source, Remark
Explosive properties:			In use, may form flammable/explosive vapour-air mixture.
Oxidising properties			not applicable

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 product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Ignition sources
Flames, sparks, heat
Temperatures in excess of about 50 °C

10.5 Incompatible materials

Oxidising agent
Pyrophoric or self-heating substances

10.6 Hazardous decomposition products

Pyrolysis products, toxic
Carbon dioxide
Carbon monoxide
aldehydes
carbon black

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Animal data

	Effective dose	Method	Source, Remark
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 inhalation toxicity	Acute inhalation toxicity (vapour) LC50: 124.7 mg/L Rat Exposure time 4 h	OECD 403	CAS No.64-17-5 ethanol

Assessment/classification

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

Skin corrosion/irritation

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Version 3

Animal data

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

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 ≥ 50 % 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)
not sensitising.	CAS No.64-17-5 ethanol Mouse	OECD 429	Local Lymph Node Assay (LLNA)

Assessment/classification

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

Germ cell mutagenicity

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

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

Experimental data

	Value	Method	Source, Remark
Viscosity	kinematic		not applicable
Viscosity	dynamic		not applicable

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	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		



	Effective dose	Method	Source, Remark
Acute (short-term) toxicity to crustacea	EC50 5012 mg/L Ceriodaphnia dubia Test duration 48 h		CAS No.64-17-5 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
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

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

	Value	Method	Source, Remark
Partition coefficient: n-octanol/water	-0.31		CAS No.64-17-5 ethanol

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
160504 *	gases in pressure containers (including halons) containing hazardous substances
Waste code packaging	Waste name
150104	metallic packaging

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Completely emptied packages can be recycled.

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	1950	1950	1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, non-flammable
14.3 Transport hazard class(es)	2	2.2	2.2
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

Land transport (ADR/RID)

UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2
Hazard label(s)	2.2
Classification code:	5A
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Special Provisions	190 327 344 625
tunnel restriction code	E

Remark

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

Sea transport (IMDG)

UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.2
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Marine pollutant	-
EMS	F-D, S-U

Air transport (ICAO-TI / IATA-DGR)

UN number	1950
UN proper shipping name	Aerosols, non-flammable
Transport hazard class(es)	2.2
Packing group	-
Environmental hazards	No



SECTION 15: Regulatory information

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

EU legislation

To follow:

Aerosol directive (75/324/EEC)

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

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.