



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

1.1 Product identifier

Trade name/designation Sports Mood

Partno A 000 899 01 88

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

Use

aromatic substance mixture

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

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Aquatic Chronic 3, H412	

hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P273 Avoid release to the environment.

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

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Special rules for supplemental label elements for certain mixtures

EUH208 Enthält Citronellol, Geraniol, (R)-p-Mentha-1,8-dien; D-Limonen, Eugenol. Kann allergische Reaktionen hervorrufen.

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]
97-53-0	202-589-1	Eugenol	≥ 0.1 < 1 %	Eye Irrit. 2 H319 Skin Sens. 1B H317
106-24-1	203-377-1	3,7-dimethylocta-(E)-2,6-diene-1-ol	≥ 0.1 < 1 %	Skin Irrit. 2 H315 Eye Dam. 1 H318 Skin Sens. 1 H317
81782-77-6	279-815-0	4-methyl-3-decen-5-ol	≥ 0.25 < 1 %	Aquatic Acute 1 H400 Aquatic Chronic 2 H411
106-22-9	203-375-0	3,7-dimethyloct-6-en-1-ol	≥ 0.1 < 1 %	Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1B H317
5989-27-5	227-813-5	(R)-p-mentha-1,8-diene	≥ 0.25 < 1 %	Flam. Liq. 3 H226 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Asp. Tox. 1 H304
128-37-0	204-881-4	2,6-di-tert-butyl-p-cresol	≥ 0.1 < 0.25 %	Aquatic Acute 1 H400 M=1 Aquatic Chronic 1 H410 M=1

REACH No.	Substance name
01-2119552430-49	3,7-dimethylocta-(E)-2,6-diene-1-ol
01-2119983528-21	4-methyl-3-decen-5-ol
01-2119453995-23	3,7-dimethyloct-6-en-1-ol
01-2119529223-47	(R)-p-mentha-1,8-diene
01-2119555270-46	2,6-di-tert-butyl-p-cresol

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.
Consult a doctor if the complaint persists.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.
Consult physician in the event of continuous problems

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 mist

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire formation of dangerous gases possible.

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.
Use water spray jet to protect personnel and to cool endangered containers.

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.

For emergency responders

Personal protection equipment
Provide adequate ventilation.

6.2 Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.

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

Take the usual precautions when handling with chemicals.

No special fire protection measures are necessary.

Avoid:

Eye contact

Skin contact

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 before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Storage class

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

Materials to avoid

Do not store together with:

Food and feedingstuffs

Further information on storage conditions

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

Protect against:

Heat

UV-radiation/sunlight

7.3 Specific end use(s)

Recommendation

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL worker

CAS No.	Substance name	DNEL value	DNEL type	Remark
106-22-9	3,7-dimethyloct-6-en-1-ol	161.6 mg/m ³	long-term inhalative (systemic)	
106-22-9	3,7-dimethyloct-6-en-1-ol	10 mg/m ³	long-term inhalative (local)	
106-22-9	3,7-dimethyloct-6-en-1-ol	10 mg/m ³	acute inhalative (local)	
106-22-9	3,7-dimethyloct-6-en-1-ol	327.4 mg/kg bw/day	long-term dermal (systemic)	
106-22-9	3,7-dimethyloct-6-en-1-ol	2.95 mg/cm ²	acute dermal, short-term (local)	

DNEL Consumer

CAS No.	Substance name	DNEL value	DNEL type	Remark
106-22-9	3,7-dimethyloct-6-en-1-ol	2.95 mg/cm ²	acute dermal, short-term (local)	

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CAS No.	Substance name	DNEL value	DNEL type	Remark
106-22-9	3,7-dimethyloct-6-en-1-ol	196.4 mg/kg bw/day	long-term dermal (systemic)	
106-22-9	3,7-dimethyloct-6-en-1-ol	10 mg/m ³	acute inhalative (local)	
106-22-9	3,7-dimethyloct-6-en-1-ol	10 mg/m ³	long-term inhalative (local)	
106-22-9	3,7-dimethyloct-6-en-1-ol	47.8 mg/m ³	long-term inhalative (systemic)	
106-22-9	3,7-dimethyloct-6-en-1-ol	13.8 mg/kg bw/day	long-term oral (repeated)	

PNEC

CAS No.	Substance name	PNEC Value	PNEC type	Remark
128-37-0	2,6-di-tert-butyl-p-cresol	0.02 µg/L	aquatic, marine water	
128-37-0	2,6-di-tert-butyl-p-cresol	0.199 µg/L	aquatic, freshwater	
128-37-0	2,6-di-tert-butyl-p-cresol	4 µg/L	aquatic, intermittent release	
128-37-0	2,6-di-tert-butyl-p-cresol	0.17 mg/L	sewage treatment plant (STP)	
128-37-0	2,6-di-tert-butyl-p-cresol	99.6 µg/kg	sediment, freshwater	
128-37-0	2,6-di-tert-butyl-p-cresol	47.69 µg/kg	soil, freshwater	
106-22-9	3,7-dimethyloct-6-en-1-ol	0.002 mg/L	aquatic, freshwater	
106-22-9	3,7-dimethyloct-6-en-1-ol	0.026 mg/kg	sediment, freshwater	Trockengewicht (TW)
106-22-9	3,7-dimethyloct-6-en-1-ol	0.00024 mg/L	aquatic, marine water	
106-22-9	3,7-dimethyloct-6-en-1-ol	0.003 mg/kg	sediment, marine water	Trockengewicht (TW)
106-22-9	3,7-dimethyloct-6-en-1-ol	0.004 mg/kg	soil, freshwater	Trockengewicht (TW)
106-22-9	3,7-dimethyloct-6-en-1-ol	580 mg/L	sewage treatment plant (STP)	

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**

chemical-resistant gloves

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

Not required

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

liquid

Colour

light yellow

orange

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			not determined
pH	in delivery state		not determined
Melting point/freezing point			not applicable
Initial boiling point and boiling range			not determined
Flash point	87 °C		
Evaporation rate			not determined
flammability	solid		not determined
flammability	gaseous		not determined
Upper/lower flammability or explosive limits	Upper explosion limit		not determined
Upper/lower flammability or explosive limits	Lower explosion limit		not determined
Vapour pressure	< 1 kPa (50°C)		
Vapour density			not determined
Density	Relative density 0.972- 0.982 (20°C)		
Solubility(ies)	Water solubility (g/L)		not determined
Partition coefficient: n-octanol/water	3.41 (25°C)		CAS No.106-22-9 3,7-dimethyloct-6-en-1-ol
Partition coefficient: n-octanol/water	2.6 (25°C)	OECD 117	CAS No.106-24-1 3,7-dimethylocta-(E)-2,6-diene-1-ol
Partition coefficient: n-octanol/water	1.83 (30°C) at pH 5.5	OECD 117	CAS No.97-53-0 Eugenol
Auto-ignition temperature			not determined
Decomposition temperature			not determined
Viscosity	dynamic		not determined
Viscosity	kinematic		not determined
Explosive properties:			not determined
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 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.
Vapours can form an explosive mixture with air.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Animal data

	Effective dose	Method	Source, Remark
Acute oral toxicity	LD50: > 2930 mg/kg Rat	OECD 401	CAS No.128-37-0 2,6-di-tert-butyl-p-cresol
Acute oral toxicity	LD50: 3600 mg/kg Rat		CAS No.106-24-1 3,7-dimethylocta-(E)-2,6-diene-1-ol
Acute oral toxicity	LD50: > 2000 mg/kg Rat	OECD 423	CAS No.97-53-0 Eugenol
Acute dermal toxicity	LD50: > 5000 mg/kg Rat	OECD 402	CAS No.128-37-0 2,6-di-tert-butyl-p-cresol
Acute dermal toxicity	LD50: > 5000 mg/kg Rabbit		CAS No.106-24-1 3,7-dimethylocta-(E)-2,6-diene-1-ol
Acute inhalation toxicity	LC0: > 11.6 mg/L Rat Exposure time 4 h		CAS No.128-37-0 2,6-di-tert-butyl-p-cresol
Acute inhalation toxicity	Acute inhalation toxicity (dust/mist) LC50: > 5 mg/L Rat Exposure time 4 h	OECD 403	CAS No.97-53-0 Eugenol

Assessment/classification

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



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Skin corrosion/irritation

Animal data

Result / evaluation	Method	Source, Remark
non-irritant Rabbit		CAS No.128-37-0 2,6-di-tert-butyl-p-cresol

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

Animal data

Result / evaluation	Dose / Concentration	Method	Source, Remark
negative	CAS No.128-37-0 2,6-di-tert-butyl-p-cresol Guinea pig	Magnusson-Kligman Test	Maximisation test (GPMT)

Assessment/classification

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

Repeated dose toxicity (subacute, subchronic, chronic)

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Subacute oral toxicity					No data available
Subacute dermal toxicity					No data available
Subacute inhalation toxicity					No data available
Subchronic oral toxicity					No data available
Subchronic dermal toxicity					No data available
Subchronic inhalation toxicity					No data available
Chronic oral toxicity					No data available
Chronic oral toxicity	CAS No.128-37-0 2,6-di-tert-butyl-p-cresol LOAEL 160 mg/kg Rat Exposure time 24 Monate				
Chronic dermal toxicity					No data available
Chronic inhalation toxicity					No data available



Germ cell mutagenicity

	Value	Method	Result / evaluation	Remark
In vitro mutagenicity/genotoxicity	CAS No.128-37-0 2,6-di-tert-butyl-p-cresol	Bacterial Reversion Mutation Test (AMES)	negative.	
In vivo mutagenicity/genotoxicity	CAS No.128-37-0 2,6-di-tert-butyl-p-cresol Mouse	Mammalian bone marrow - cytogenetic in-vivo test, chromosome analysis	negative.	

Carcinogenicity

Animal data

	Value	Method	Result / evaluation	Remark
Carcinogenicity	CAS No.128-37-0 2,6-di-tert-butyl-p-cresol Rat		negative.	

Reproductive toxicity

Animal data

	Value	Method	Result / evaluation	Remark
Adverse effects on sexual function and fertility	CAS No.128-37-0 2,6-di-tert-butyl-p-cresol Rat	Two-generation study	negative.	

Overall Assessment on CMR properties

This product does not meet the criteria for classification in Categories 1A/ 1B.

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	dynamic		not determined
Viscosity	kinematic		not determined

**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: 0.57 mg/L Danio rerio Test duration 96 h	OECD 203	CAS No.128-37-0 2,6-di-tert-butyl-p-cresol
Acute (short-term) fish toxicity	LC50: 14.66 mg/L Leuciscus idus (golden orfe) Test duration 96 h	DIN 38412 / part 15	CAS No.106-22-9 3,7-dimethylocta-6-en-1-ol
Acute (short-term) fish toxicity	LC50: approx. 22 mg/L Danio rerio Test duration 96 h	OECD 203	CAS No.106-24-1 3,7-dimethylocta-(E)-2,6-diene-1-ol
Acute (short-term) fish toxicity	LC50: 13 mg/L Danio rerio Test duration 96 h	OECD 203	CAS No.97-53-0 Eugenol
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 > 0.17 mg/L Daphnia pulex (water flea) Test duration 48 h		CAS No.128-37-0 2,6-di-tert-butyl-p-cresol
Acute (short-term) toxicity to crustacea	EC50 17.48 mg/L Daphnia magna (Big water flea) Test duration 48 h	79/831/EWG	CAS No.106-22-9 3,7-dimethylocta-6-en-1-ol
Acute (short-term) toxicity to crustacea	EC50 10.8 mg/L Daphnia magna (Big water flea) Test duration 48 h	OECD 202	CAS No.106-24-1 3,7-dimethylocta-(E)-2,6-diene-1-ol
Acute (short-term) toxicity to crustacea	EC50 1.13 mg/L Daphnia magna (Big water flea) Test duration 48 h	OECD 202	CAS No.97-53-0 Eugenol
Chronic (long-term) toxicity to crustacea	NOEC 0.316 mg/L Daphnia magna (Big water flea) Test duration 21 d		CAS No.128-37-0 2,6-di-tert-butyl-p-cresol
Acute (short-term) toxicity to aquatic algae and cyanobacteria	EC10 0.4 mg/L Desmodesmus subspicatus Test duration 72 h	Directive 67/548/EEC, Appendix V, C.3	CAS No.128-37-0 2,6-di-tert-butyl-p-cresol
Acute (short-term) toxicity to aquatic algae and cyanobacteria	EC50 13.1 mg/L Desmodesmus subspicatus Test duration 72 h	OECD 201	CAS No.106-24-1 3,7-dimethylocta-(E)-2,6-diene-1-ol
Acute (short-term) toxicity to aquatic algae and cyanobacteria	EC10 3.77 mg/L Pseudokirchneriella subcapitata (green alga) Test duration 72 h	OECD 201	CAS No.106-24-1 3,7-dimethylocta-(E)-2,6-diene-1-ol
Acute (short-term) toxicity to aquatic algae and cyanobacteria	ErC50 24 mg/L Pseudokirchneriella subcapitata (green alga) Test duration 72 h	OECD 201	CAS No.97-53-0 Eugenol
Toxicity to other aquatic plants/organisms	EC50 > 0.42 mg/L selenastrum capricornutum (green algae) Test duration 72 h		CAS No.128-37-0 2,6-di-tert-butyl-p-cresol

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	Effective dose	Method	Source, Remark
Toxicity to microorganisms	EC50 > 10000 mg/L Test duration 3 h		CAS No.128-37-0 2,6-di- tert-butyl-p-cresol
Toxicity to microorganisms	EC50 > 10000 mg/L Pseudomonas putida Test duration 0.5 h	DIN 38412 / part 27	CAS No.106-22-9 3,7- dimethyloct-6-en-1-ol
Toxicity to microorganisms	EC50 144 mg/L activated sludge Test duration 96 h	ISO 8192	CAS No.106-24-1 3,7- dimethylocta-(E)-2,6-diene- 1-ol

Assessment/classification

Harmful to aquatic organisms with lasting effect.

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate (%): 82	OECD 301D/ EEC 92/69/V, C.4-E	CAS No.106-24-1 3,7- dimethylocta-(E)-2,6-diene- 1-ol 28 d Easily biodegradable
Biodegradation	Degradation rate (%): 82	OECD 301D/ EEC 92/69/V, C.4-E	CAS No.97-53-0 Eugenol 28 d Easily biodegradable

12.3 Bioaccumulative potential

	Value	Method	Source, Remark
Partition coefficient: n- octanol/water	3.41 (25°C)		CAS No.106-22-9 3,7- dimethyloct-6-en-1-ol
Partition coefficient: n- octanol/water	2.6 (25°C)	OECD 117	CAS No.106-24-1 3,7- dimethylocta-(E)-2,6-diene- 1-ol
Partition coefficient: n- octanol/water	1.83 (30°C) at pH 5.5	OECD 117	CAS No.97-53-0 Eugenol

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 product to reach ground water, water course or sewage system.

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

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Handle contaminated packages in the same way as the substance itself.

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).

VOC content, delivery state 96.51 %

Water hazard class (WGK)

obviously hazardous to water (WGK 2)

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

* Data changed compared with the previous version

Current safety data sheets are available at:

<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.



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Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.