



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

1.1 Product identifier

Trade name/designation Pacific Mood

Partno A 000 899 09 00

Hazard components for labelling

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one, 3,7-dimethyloct-6-en-1-ol

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

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
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Skin Sens. 1, H317

Aquatic Chronic 2, H411

hazard statements for health hazards

H317 May cause an allergic skin reaction.

hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.



2.2 Label elements

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

Hazard components for labelling

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one, 3,7-dimethyloct-6-en-1-ol

Hazard pictograms



GHS07



GHS09

Signal word

Warning

Hazard statements

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/eye protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

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

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]
54464-57-2	259-174-3	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	≥ 1 < 5 %	Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Chronic 1 H410
33704-61-9	251-649-3	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	≥ 0.1 < 1 %	Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1B H317 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
28645-51-4	249-120-7	Oxacycloheptadec-10-en-2-one	≥ 0.025 < 0.1 %	Aquatic Acute 1 H400 M=10 Aquatic Chronic 1 H410 M=10



REACH No.	Substance name
01-2119489989-04	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
01-2119977131-40	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one
01-2119453995-23	3,7-dimethyloct-6-en-1-ol
01-2120103324-74	Oxacycloheptadec-10-en-2-one

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove affected person from the danger area and lay down.

Following inhalation

Provide fresh air.

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

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.

Rinse mouth immediately and drink plenty of water.

Medical treatment necessary.

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

Provide adequate ventilation.

Personal protection equipment

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.

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 container tightly closed and in a 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)	
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
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**

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl 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

Not required

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

colourless

light yellow

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
pH			not applicable nicht in Wasser löslich
Melting point/freezing point	not determined		
Initial boiling point and boiling range	not determined		
Flash point	91 °C		
Evaporation rate	not determined		
flammability	not determined		
Upper/lower flammability or explosive limits	not determined		
Vapour pressure	< 1 kPa (50°C)	calculated	
Vapour density	not determined		
Density	Relative density 0.97- 0.98 (20°C)		
Solubility(ies)	Water solubility (g/L)		Immiscible
Partition coefficient: n-octanol/water	3.41 (25°C)		CAS No.106-22-9 3,7-dimethyloct-6-en-1-ol
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			Non-oxidizing

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 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

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

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	LD50: 5000 mg/kg Rat		CAS No.54464-57-2 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
Acute oral toxicity	LD50: > 2000 mg/kg Rat	OECD 423	CAS No.28645-51-4 Oxacycloheptadec-10-en-2-one
Acute dermal toxicity	LD50: 5000 mg/kg Rabbit		CAS No.54464-57-2 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
Acute dermal toxicity	LD50: > 2000 mg/kg Rat	OECD 402	CAS No.28645-51-4 Oxacycloheptadec-10-en-2-one
Acute inhalation toxicity	not determined		

Assessment/classification

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

Skin corrosion/irritation

Animal data

Result / evaluation	Method	Source, Remark
irritant Human Exposure time 0.25 h	OECD 439	CAS No.54464-57-2 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

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
sensibilisierend	CAS No.54464-57-2 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one 6.07 % Mouse	OECD 429	

Assessment/classification

May cause sensitisation by skin contact.

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

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: 14.66 mg/L Leuciscus idus (golden orfe) Test duration 96 h	DIN 38412 / part 15	CAS No.106-22-9 3,7-dimethyloct-6-en-1-ol
Chronic (long-term) fish toxicity	not determined		
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-dimethyloct-6-en-1-ol
Chronic (long-term) toxicity to crustacea	not determined		

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	Effective dose	Method	Source, Remark
Acute (short-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
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

Assessment/classification

Toxic to aquatic organisms with lasting effect.

12.2 Persistence and degradability

No data available

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

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****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	3082	3082	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAHYDROTETRAMETHYL L-NAPHTHALENYL-ETHANON)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAHYDROTETRAMETHYL L-NAPHTHALENYL-ETHANON)	Environmentally hazardous substance, liquid, n.o.s. (OCTAHYDROTETRAMETHYL NAPHTHALENYL-ETHANON)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III



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	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5 Environmental hazards	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS

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	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAHYDROTETRAMETHYL-NAPHTHALENYL-ETHANON)
Transport hazard class(es)	9
Hazard label(s)	9
Classification code:	M6
Packing group	III
Environmental hazards	ENVIRONMENTALLY HAZARDOUS
Limited quantity (LQ)	5 L
Special Provisions	274 335 375 601
tunnel restriction code	-

Sea transport (IMDG)

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (OCTAHYDROTETRAMETHYL-NAPHTHALENYL-ETHANON)
Transport hazard class(es)	9
Packing group	III
Environmental hazards	ENVIRONMENTALLY HAZARDOUS
Limited quantity (LQ)	5 L
Marine pollutant	Yes.
EMS	F-A, S-F

Air transport (ICAO-TI / IATA-DGR)

UN number	3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (OCTAHYDROTETRAMETHYL-NAPHTHALENYL-ETHANON)
Transport hazard class(es)	9
Packing group	III
Environmental hazards	ENVIRONMENTALLY HAZARDOUS

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

* 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.

Abkürzungen und Akronyme siehe Übersichtstabelle unter www.euphrac.eu

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

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.