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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 02.09.2025 Version number 3.00 (replaces version 2.00) Revision: 02.09.2025

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

· Product identifier

· Trade name: methyl 4-hydroxybenzoate

· Article number: 2419

· CAS Number:

99-76-3

· EC number:

202-785-7

- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

CAELO

Caesar & Loretz GmbH

Herderstr. 31

D-40721 Hilden

GERMANY

· Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

· Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



Signal word Void



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· Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

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

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- **Determination of endocrine-disrupting properties** List II

3 Composition/information on ingredients

- Substances
- · CAS No. Description

CAS: 99-76-3 methyl 4-hydroxybenzoate

- · Identification number(s)
- · EC number: 202-785-7

4 First aid measures

- Description of first aid measures
- · After inhalation: Bring the person out of the contaminated area to fresh air.
- · After skin contact:

Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

If you feel unwell, seek medical advice.

Most important symptoms and effects, both acute and delayed

Dizziness.

Nausea

Vomitina

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:

Water spray

Alcohol resistant foam

Fire-extinguishing powder

CO₂

Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.

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- · Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Take up dry. Clean up with water.

Dispose contaminated material as waste according to section 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection:

Protect against electrostatic charges.

Good ventilation / exhaustion of working place and storage place.

- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

- · Storage class: TRHS 510: 11 Combustible solids
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Wash hands before breaks and at the end of work.

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- · Respiratory protection: Dust protection mask.
- · Hand protection Protective gloves
- Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

Physical stateColour:Odour:SolidWhiteLight

· Odour threshold: Not determined.

· Melting point/freezing point: 125 °C

Boiling point or initial boiling point and boiling

undetermined.

· **Flammability** Product is not flammable.

· Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined.

Flash point: 168 °C
 Auto-ignition temperature: >403 °C
 Decomposition temperature: 270-280 °C
 pH (1.88 g/l) at 20 °C
 5.72

· Viscosity:

Kinematic viscosityDynamic:Not applicable.Not applicable.

·Solubility

water at 20 °C:
Partition coefficient n-octanol/water (log value)
Vapour pressure at 20 °C:
1.88 g/l
0.29667
1.88 g/l
1.89 g/l
1.89 g/l
1.89 g/l
1.80 g/l</l

Density and/or relative density

Density at 20 °C:

 Relative density
 Vapour density

 Particle characteristics
 1.38 g/cm³

 Not determined

 Not determined

· Other information

· Appearance:

· Form: Crystalline powder

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· Important information on protection of health and environment, and on safety.

• **Ignition temperature:** Not determined.

• Explosive properties: Product does not present an explosion hazard.

· Change in condition

• **Evaporation rate** Not applicable.

· Information with regard to physical hazard classes

Explosives
 Void
 Flammable gases
 Void
 Void
 Aerosols
 Void
 Void

Oxidising gasesVoidGases under pressureVoid

Flammable liquids Void

Flammable solids Void Void

· Self-reactive substances and mixtures Void Void

Pyrophoric liquidsVoidPyrophoric solidsVoid

Void Self-heating substances and mixtures Void

Void Void

· Substances and mixtures, which emit flammable gases in contact with water Void

Void
Oxidising liquids
Void

· Oxidising solids Void

Void · Organic peroxides Void

Void · Corrosive to metals Void

Void
Desensitised explosives
Void
Void

10 Stability and reactivity

· Reactivity No further relevant information available.

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- · Chemical stability
- Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

strong bases

strong oxidizing agents

Hazardous decomposition products:

Carbon dioxide

Carbon monoxide

Poisonous gases/vapours

11 Toxicological information

- Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

Oral LD50 >5,000 mg/kg (rabbit)

- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- Information on other hazards
- · Endocrine disrupting properties List II

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

LC50 59.5 mg/L /48h (Fish)

EC50 91 mg/L /72h (algae)

11.2 mg/L /48h (Daphnia magna)

- · Persistence and degradability Easily biodegradable
- · Bioaccumulative potential No further relevant information available.
- · **Mobility in soil** No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · Other adverse effects
- · Remark: Toxic for fish

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- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to local regulations.

14 Transport information

· UN number or ID number

· ADR, IMDG, IATA UN3077

· UN proper shipping name

· ADR 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (methyl 4-hydroxybenzoate)

· IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (methyl 4-hydroxybenzoate), MARINE

POLLUTANT

· IATA Environmentally hazardous substance, solid, n.o.s.

(methyl 4-hydroxybenzoate)

· Transport hazard class(es)

· ADR, IMDG, IATA

· Class 9 Miscellaneous dangerous substances and articles.

· Label 9

· Packing group

· ADR, IMDG, IATA

· Environmental hazards:

Marine pollutant:
 Special marking (ADR):
 Special marking (IATA):
 Symbol (fish and tree)
 Symbol (fish and tree)

· Special precautions for user Warning: Miscellaneous dangerous substances and

articles.

· Hazard identification number (Kemler code): 90

• EMS Number: F-A,S-F
• Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5 kg

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· Transport category 3 · Tunnel restriction code -

·IMDG

· Limited quantities (LQ) 5 kg

· UN "Model Regulation": UN 3077 ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, SOLID, N.O.S. (METHYL 4-

HYDROXYBENZOATE), 9, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Not listed
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

Substance is not listed.

- · National regulations:
- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 11 Combustible solids

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- Reasons for alterations This version replaces all old versions.
- Version number of previous version: 2.00
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

IE :