

Trade name: Methylis parahydroxybenzoas

Substance number: 065648

Version: 5 / CH

Date revised: 30.01.2024

Replaces Version: 4 / CH

Print date: 30.01.24

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

1.1. Product identifier

Methylis parahydroxybenzoas

Item No. 06564800

Registration no.

EC No.: 202-785-7

CAS No. 99-76-3

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

Use of the substance/preparation

Preservative, Raw material for pharmaceutical production and analysis

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Hazard statements

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements

P273

Avoid release to the environment.

P391

Collect spillage.

P501.3

Disposal in compliance with local and national regulations.

2.3. Other hazards

Trade name: Methylis parahydroxybenzoas

Substance number: 065648

Version: 5 / CH

Date revised: 30.01.2024

Replaces Version: 4 / CH

Print date: 30.01.24

The product contains no PBT or vPvB substances.

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

Molecular weight

Value	152.147	g/mol
	3	

Hazardous ingredients

methyl 4-hydroxybenzoate

CAS No.	99-76-3		
EINECS no.	202-785-7		
Registration no.	01-2119463264-40-0003		
Concentration	>= 50	%	
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 2	H411	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and shoes immediately. If you feel unwell, seek medical advice (show the label where possible).

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

In general the product isn't skin irritating. In case of contact with skin wash off with water. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. In case of irritation consult an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink. In the event of symptoms take medical treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Foam, Carbon dioxide, Dry powder

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Development of toxic gases; In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

No special measures required.

Trade name: Methylis parahydroxybenzoas

Substance number: 065648

Version: 5 / CH

Date revised: 30.01.2024

Replaces Version: 4 / CH

Print date: 30.01.24

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure supply of fresh air. Avoid dust formation. Keep away unprotected persons.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Dangerous substances are not released.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. The product is combustible.

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**

Value	15	-	25	°C
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Requirements for storage rooms and vessels

Keep only in original packaging. Provide acid-resistant floor.

Storage classes

Storage category (Switzerland)	11/13	Other solid hazardous substances with classification/labelling hazardous
Storage class according to TRGS 510	13	Non- combustible solids

Further information on storage conditions

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

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Derived No/Minimal Effect Levels (DNEL/DMEL)****methyl 4-hydroxybenzoate**

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	12.5	mg/kg/d

Type of value	Derived No Effect Level (DNEL)
Reference group	General Population
Duration of exposure	Long term

Trade name: Methylis parahydroxybenzoas

Substance number: 065648

Version: 5 / CH

Date revised: 30.01.2024

Replaces Version: 4 / CH

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Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	14.7	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	29.41	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	43.45	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	176.3	mg/m ³

Predicted No Effect Concentration (PNEC)

methyl 4-hydroxybenzoate

Type of value	PNEC	
Type	Freshwater	
Concentration	0.0024	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.00024	mg/l
Type of value	PNEC	
Conditions	Intermittend	
Concentration	0.112	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0.0632	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0.00632	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0.0115	mg/kg

Trade name: Methylis parahydroxybenzoas

Substance number: 065648

Version: 5 / CH

Date revised: 30.01.2024

Replaces Version: 4 / CH

Print date: 30.01.24

8.2. Exposure controls

General protective and hygiene measures

General industrial hygiene practice. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid any contact with the body. Preventative skin protection.

Respiratory protection

necessary; Particle filter P1; DIN EN 143

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	odourless
Physical state	crystals
Melting point	
Value	125 °C
Boiling point or initial boiling point and boiling range	
Value	190 to 280 °C
Upper and lower explosive limits	
Remarks	Not applicable
Flash point	
Value	°C
Remarks	Not applicable
Decomposition temperature	
Value	270 to 280 °C
pH value	
Value	3 to 4.5
Partition coefficient n-octanol/water (log value)	
Reference substance	methyl 4-hydroxybenzoate
p _{OW}	1.98
Vapour pressure	
Value	0.00000 kPa 0028
Density and/or relative density	
Value	1.3775 g/cm ³
Temperature	20 °C

9.2. Other information

Trade name: Methylis parahydroxybenzoas

Substance number: 065648

Version: 5 / CH

Date revised: 30.01.2024

Replaces Version: 4 / CH

Print date: 30.01.24

Solubility in water

Value	1.88		g/l
Temperature	20	°C	

Auto-ignition temperature

Value	> 403	°C
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Other information

The product is not dangerous for explosions. Forms explosive mixture with air are possible.

SECTION 10: Stability and reactivity**10.1. Reactivity**

None known

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

10.4. Conditions to avoid

Avoid dust formation. Keep away from sources of heat and ignition. Protect from light and atmospheric moisture.

10.5. Incompatible materials

strong acids, Alkalies, Oxidising agents

10.6. Hazardous decomposition products

In the event of fire the following can be released: Carbon monoxide and carbon dioxide, Toxic gases/vapours

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****methyl 4-hydroxybenzoate**

Species	rat		
LD50	2100		mg/kg
Method	OECD 401		

methyl 4-hydroxybenzoate

Species	guinea pig		
LD50	3000		mg/kg

methyl 4-hydroxybenzoate

Species	rabbit		
LC50	6000		mg/kg

Skin corrosion/irritation (Components)**methyl 4-hydroxybenzoate**

Species	rabbit		
Duration of exposure	24		h
Observation Period	72		h
evaluation	Moderately irritating		
Method	Draize method		

Serious eye damage/irritation (Components)

Trade name: Methylis parahydroxybenzoas

Substance number: 065648

Version: 5 / CH

Date revised: 30.01.2024

Replaces Version: 4 / CH

Print date: 30.01.24

methyl 4-hydroxybenzoate

Species rabbit
 Observation Period 48 h
 evaluation Moderately irritating
 Method Draize method

Sensitization (Components)**methyl 4-hydroxybenzoate**

Species guinea pig
 evaluation non-sensitizing
 Method OECD 406

Subacute, subchronic, chronic toxicity (Components)**methyl 4-hydroxybenzoate**

Species rat
 NOAEL >= 250 mg/kg
 Duration of exposure 28 d

methyl 4-hydroxybenzoate

Sub-chronic toxicity
 Route of exposure oral
 Species rat
 NOAEL 1000 mg/kg
 Duration of exposure 63 Days
 Remarks None

Mutagenicity (Components)**methyl 4-hydroxybenzoate**

evaluation No mutagenicity according to various in vitro tests.
 Method OECD 471

methyl 4-hydroxybenzoate

Species mammal, species unspecified
 Method OECD 476
 Remarks negative

Reproduction toxicity (Components)**methyl 4-hydroxybenzoate**

Species rat
 Dose 1000 mg/kg
 Duration of exposure 63 d
 evaluation No negative effects
 Method OECD 422
 Remarks Based on available data, the classification criteria are not met.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****methyl 4-hydroxybenzoate**

Species golden orfe (Leuciscus idus)
 NOEC 50 mg/l
 Duration of exposure 48 h

Trade name: Methylis parahydroxybenzoas

Substance number: 065648

Version: 5 / CH

Date revised: 30.01.2024

Replaces Version: 4 / CH

Print date: 30.01.24

methyl 4-hydroxybenzoate

Species	Oryzias latipes		
LC50	59.5		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity (Components)**methyl 4-hydroxybenzoate**

Species	Daphnia magna		
NOEC	0.2		mg/l
Duration of exposure	21	d	
Method	OECD 211		
Source	Manufacturer's data		

methyl 4-hydroxybenzoate

Species	Daphnia magna		
EC50	11.2		mg/l
Duration of exposure	48	h	

Algae toxicity (Components)**methyl 4-hydroxybenzoate**

Species	Pseudokirchneriella subcapitata		
EC50	91		mg/l
Duration of exposure	72	h	

methyl 4-hydroxybenzoate

NOEC	17		mg/l
Duration of exposure	72	h	
Method	OECD 201		

methyl 4-hydroxybenzoate

Species	Pseudokirchneriella subcapitata		
NOEC	20		mg/l
Duration of exposure	72	h	
Method	ISO 8692		

Bacteria toxicity (Components)**methyl 4-hydroxybenzoate**

Species	Pseudomonas fluorescens		
EC0	500		mg/l

12.2. Persistence and degradability**Biodegradability (Components)****methyl 4-hydroxybenzoate**

Value	92.2		%
Duration of test	28	d	
evaluation	Readily biodegradable		
Method	OECD 301F		

methyl 4-hydroxybenzoate

Value	89		%
Duration of test	28	d	
evaluation	Readily biodegradable		
Method	OECD 301 B		

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water (log value)**

Reference substance	methyl 4-hydroxybenzoate
pOW	1.98

Trade name: Methylis parahydroxybenzoas

Substance number: 065648

Version: 5 / CH

Date revised: 30.01.2024

Replaces Version: 4 / CH

Print date: 30.01.24

Octanol/water partition coefficient (log Pow) (Components)

methyl 4-hydroxybenzoate

log Pow 1.98

12.4. Mobility in soil**Mobility in soil (Components)**

methyl 4-hydroxybenzoate

Highly mobile in soils

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information / ecology**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

SECTION 14: Transport information ***

Trade name: Methylis parahydroxybenzoas




Substance number: 065648

Version: 5 / CH

Date revised: 30.01.2024

Replaces Version: 4 / CH

Print date: 30.01.24

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	-		
14.1. UN number	3077	3077	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (methyl 4- hydroxybenzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (methyl 4- hydroxybenzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (methyl 4- hydroxybenzoate)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H411 Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.