

Trade name: Benzylis benzoas

Substance number: 071900

Version: 3 / CH

Date revised: 13.07.2022

Replaces Version: 2 / CH

Print date: 13.07.22

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

1.1. Product identifier

Benzylis benzoas

Item No. 07190000

Registration no.

Registration no. 01-2119976371-33-0006

Substance / product identification

CAS-No. 120-51-4

EINECS-No. 204-402-9

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

Use of the substance/preparation

flavour/ fragrance

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
person responsible
for this SDS sdb@haenseler.ch

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)

Acute Tox. 4 H302

Aquatic Acute 1 H400

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



Signal word

Warning

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Hazard statements ***

H302 Harmful if swallowed.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements ***

P264.1 Wash hands thoroughly after handling.
 P273 Avoid release to the environment.
 P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
 P330 Rinse mouth.
 P391 Collect spillage.
 P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** benzyl benzoate

SECTION 3: Composition/information on ingredients *****Molecular weight**

Value	212.26	g/mol
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Hazardous ingredients *****benzyl benzoate**

CAS No.	120-51-4	
EINECS no.	204-402-9	
Registration no.	01-2119976371-33-0006	
Concentration	>= 75	%
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Aquatic Acute 1	H400
	Aquatic Chronic 2	H411

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove affected person from danger area. In any case show the physician the Safety Data Sheet. Do not leave casualty unattended. Adhere to personal protective measures when giving first aid

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. Wash off immediately with soap and water and rinse well. Consult a doctor if symptoms occur.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Remove contact lenses. Shield unaffected eye. By continuous complaints consult a physician.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. In the event of symptoms take medical treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

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Suitable extinguishing media

Water spray jet, Alcohol-resistant foam, Carbon dioxide, Dry chemical extinguisher

Non suitable extinguishing media

Full water jet

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Do not inhale explosions- and combustion gases. Cool endangered containers with water spray jet.

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

Ensure supply of fresh air. Remove persons to safety. Wear protective equipment

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Clean up affected area.

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

Avoid formation of aerosols. Wear protective equipment. Smoking, eating and drinking should be prohibited in application area. Provide good ventilation of working area (local exhaust ventilation if necessary). Do not allow to enter drains or water courses.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on storage assembly

Do not store together with animal feedstocks. Do not store together with foodstuffs.

Storage classes

Storage class according to TRGS 510	10	Flammable liquids
Storage category (Switzerland)	10/12	Other liquid hazardous substances

Further information on storage conditions

Keep only in the original container, tightly closed, in a well ventilated place. Protect from heat. Keep container tightly closed and dry. Protect from light.

SECTION 8: Exposure controls/personal protection *****8.1. Control parameters**

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Derived No/Minimal Effect Levels (DNEL/DMEL)**benzyl benzoate**

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	5.1	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	102	mg/m ³
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	2.6	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0.4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1.25	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	25	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	1.3	mg/kg/d

Predicted No Effect Concentration (PNEC)**benzyl benzoate**

Type of value	PNEC
Type	Freshwater

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Concentration	0.017	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	10.66	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0.00168	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	1.07	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	2.12	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Wash hands before breaks and after work. Keep away from food-stuffs, beverages and feed-stocks. Do not eat, drink or smoke during work time.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation.

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.

Appropriate Material nitrile
Material thickness 0.4 mm

Hand protection must comply with EN 374.

Appropriate Material Butyl rubber
Material thickness 0.7 mm

Hand protection must comply with EN 374.

Eye protection

Tightly fitting safety glasses; Eye protection must comply with EN 166.

Body protection

Impermeable protective clothing

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	characteristic
Odour	flowery
Form	solid
pH value	

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Remarks No data available

Melting point

Value	appr. 19	°C
Method	OECD 102	

Freezing point

Value	appr. 19	°C
Method	OECD 102	

Initial boiling point and boiling range

Value	324	°C
Pressure	1013	hPa

Flash point

Value	158	°C
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Vapour pressure

Value	appr. 0.00030	hPa
Temperature	5	°C
	25	°C

Density

Value	1.1170	g/cm ³
Temperature	20	°C

Solubility in water

Value	0.0153	g/l
Temperature	20	°C
Method	OECD 105	
Remarks	immiscible	

Partition coefficient: n-octanol/water

log Pow	appr. 3.97	
Temperature	25	°C

Auto-ignition temperature

Value	480	°C
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Decomposition temperature

Remarks	not determined
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Viscosity ***

Remarks	not determined
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SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed. Vapours can form an explosive mixture with air.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None

10.6. Hazardous decomposition products

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No hazardous decomposition products known when handled according to prescribed instructions.

SECTION 11: Toxicological information ***

11.1. Information on toxicological effects

Acute oral toxicity

ATE	1'500	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)

benzyl benzoate

Species	rat	
LD50	1500	mg/kg

Skin corrosion/irritation (Components)

benzyl benzoate

Species	rabbit	
Duration of exposure	4	h
evaluation	Moderately irritating	
Method	OECD 404	

Serious eye damage/irritation (Components)

benzyl benzoate

Species	rabbit	
evaluation	Moderately irritating	
Method	OECD 405	

Sensitization (Components)

benzyl benzoate

Species	mouse	
evaluation	non-sensitizing	
Method	OECD 429	

SECTION 12: Ecological information ***

12.1. Toxicity

Fish toxicity (Components)

benzyl benzoate

Species	zebra fish (Brachydanio rerio)	
LC50	2.32	mg/l
Duration of exposure	96	h

Daphnia toxicity (Components)

benzyl benzoate

Species	Daphnia magna	
EC50	3.09	mg/l
Duration of exposure	48	h
Method	OECD 202	

benzyl benzoate

Species	Daphnia magna	
NOEC	0.258	mg/l
Duration of exposure	21	d
Method	OECD 211	

Algae toxicity (Components)

benzyl benzoate

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Species	Pseudokirchneriella subcapitata	
EC50	0.475	mg/l
Duration of exposure	72	h
Method	OECD 201	

benzyl benzoate

Species	Pseudokirchneriella subcapitata	
NOEC	0.247	mg/l
Duration of exposure	72	h
Method	OECD 201	

Bacteria toxicity (Components)**benzyl benzoate**

Species	activated sludge	
EC50	> 10000	mg/l
Duration of exposure	3	h
Method	OECD 209	

12.2. Persistence and degradability**Biodegradability (Components)****benzyl benzoate**

Value	94.4	%
Duration of test	28	d
evaluation	Readily biodegradable	
Method	OECD 301	

12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

log Pow	appr. 3.97	
Temperature	25	°C

12.4. Mobility in soil**General information**

not determined

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

Not relevant

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

Dispose of as unused product.

SECTION 14: Transport information ***

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	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	-		
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl benzoate)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

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 2

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

H302

Harmful if swallowed.

H400

Very toxic to aquatic life.

H411

Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 4

Acute toxicity, Category 4

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Aquatic Acute 1

Aquatic Chronic 2

Hazardous to the aquatic environment, acute, Category 1

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.