

Benzoic acid

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Revision date:

Version: 1.0

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

1.1. Product identifier

Chemical type : Substance
Substance name : Benzoic acid

EC no : 200-618-2
CAS No. : 65-85-0
Product code : 571083
IUPAC name : Benzenecarboxylic acid
Formula : C₇H₆O₂
Synonyms : E 210

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

1.2.1. Relevant identified uses

Main use category : Pharmaceutical
Function or use category : Raw material

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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info@duchefa.com - www.duchefa.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral) H302
Eye Irrit. 2 H319

Full text of H-phrases: see section 16.

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22
Xi; R36

Full text of R-phrases: see section 16.

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H302 - Harmful if swallowed
H319 - Causes serious eye irritation

Precautionary statements (CLP) :

P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P301+P312 - If swallowed, call a doctor if you feel unwell.
P305 - IF IN EYES:
P351 - Rinse cautiously with water for several minutes

2.3. Other hazards

This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Benzoic acid (Main constituent)	(CAS No.) 65-85-0 (EC no) 200-618-2	99 - 100,5	Xn; R22 Xi; R36

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzoic acid (Main constituent)	(CAS No.) 65-85-0 (EC no) 200-618-2	99 - 100,5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Full text of R-, H- and EUH-phrases: see section 16.

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Assure fresh air breathing. Get medical advice and attention if you feel unwell.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Seek medical advice.
- First-aid measures after ingestion : Drink plenty of water. Induce vomiting. Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Irritation of the respiratory tract and the other mucous membranes.
- Symptoms/injuries after ingestion : Gastrointestinal complaints. Nausea. Vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used.

5.2. Special hazards arising from the substance or mixture

Fire hazard : This product is flammable. On exposure to high temperature, may decompose, releasing toxic gases. Carbon monoxide.

Explosion hazard : Product is not explosive.

5.3. Advice for firefighters

Firefighting instructions : Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Wear proper protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Avoid raising dust.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment : Wear proper protective equipment.

6.2. Environmental precautions

Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up dry powder and dispose properly. To clean the floor and all objects contaminated by this material, use : Ethanol.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well-ventilated area. Keep container tightly closed.

Maximum storage period : 5 year

7.3. Specific end use(s)No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Wear suitable gloves resistant to chemical penetration.

Eye protection : Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Dust production: dust mask with filter type P2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder. Crystalline solid.

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Molecular mass	: 122,1 g/mol
Colour	: White.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Melting point	: 121 - 124 °C
Solidification point	: No data available
Boiling point	: 250 °C
Flash point	: 121 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: 0,001 hPa 20°C
Relative vapour density at 20 °C	: 4,21
Relative density	: 1,321 20°C
Density	: 500 kg/m ³ 20°C
Solubility	: Soluble in ethanol. Water: 1,5 g/l 20°C
Log Pow	: 1,88
Self ignition temperature	: 570 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

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10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Strong oxidizers. Fluorine.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

Benzoic acid (65-85-0)

LD50 oral rat 1700 mg/kg

LC50 inhalation rat (mg/l) > 12,2 mg/l 15 min.

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Benzoic acid (65-85-0)

LC50 fishes 1 460 mg/l *Leuciscus idus*

EC50 *Daphnia* 1 102 mg/l 24 h

EC50 other aquatic organisms 1 252 mg/l *Tetrahymen pyriformis*, 48 h

LC50 fishes 2 44,6 mg/l *Lepomis macrochirus*

12.2. Persistence and degradability

Benzoic acid (65-85-0)

Persistence and degradability readily degradable in water.

Biochemical oxygen demand (BOD) 1,65 g O₂/g substance

ThOD 1,96 g O₂/g substance

BOD (% of ThOD) 47 % ThOD

12.3. Bioaccumulative potential

Benzoic acid (65-85-0)

BCF fishes 1 3,3

BCF other aquatic organisms 1 3,3

Log Pow 1,88

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Benzoic acid (65-85-0)

This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Avoid release to the environment.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

No dangerous good in sense of transport regulations.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No additional information available

15.1.2. National regulations

Water hazard class (WGK) : 1 - slightly hazardous to water

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:		
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Eye Irrit. 2	Serious eye damage/eye irritation Category 2
	H302	Harmful if swallowed
	H319	Causes serious eye irritation
	R22	Harmful if swallowed.
	R36	Irritating to eyes.
	Xi	Irritant
	Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.