

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.06.2024

Version number 1

Revision: 20.06.2024

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

1.1 Product identifier

Trade name: Benzoic acid**CAS number:**

65-85-0

EC number:

200-618-2

Index number:

607-705-00-8

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

Relevant identified uses:

Formulation of cosmetics/personal care products

Formulation of various products (FECC)

Use as an intermediate

Use as an auxiliary for polymerization

Consumer use of cosmetics/personal care products

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Shandong Ruiheng biotechnology Co.,Ltd.

Lunan Hi-Tech Chemical Park, Mushi Town, Tengzhou City, Shandong Province, China

1.4 Emergency telephone number(s):

NHS Direct: 111

National Poisons Information Service (NPIS): 0121 507 4123 (healthcare professionals only).

Ireland - National Poisons Information Centre: 01 837 9964 or 01 809 2566 (healthcare professionals only).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

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

Hazard pictograms:

GHS05 GHS08

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Trade name: Benzoic acid**Signal word:** Danger**Hazard statements:**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

2.3 Other hazards

Results of PBT and vPvB assessment**PBT:** No PBT.**vPvB:** No vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS Number. Description.

65-85-0 Benzoic acid

Identification number(s)**EC number:** 200-618-2**Index number:** 607-705-00-8

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

After inhalation: Move patient to fresh air, if symptoms persist consult a doctor.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:**

Rinse open eyes under running water for at least 15 minutes.

Get medical attention.

After swallowing: If symptoms persist, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure by inhalation may cause respiratory irritation. (coughing) Inhalation of dust may result in sensitization with allergic manifestations in predisposed person.

Skin contact: May cause allergic reactions in certain individuals. May be irritating.

Eye contact: Irritating to eyes. (redness and pain)

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

Fine dust clouds may form explosive mixtures with air.

5.3 Advice for firefighters

Protective equipment:

Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Keep away from ignition sources.

Use personal protective equipment.

6.2 Environmental precautions

No special measures required.

6.3 Methods and material for containment and cleaning up

For small spills, vacuum or shovel material into clean, dry container and cover for later disposal. For larger spills, dike ahead of spill for later disposal.

6.4 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with the eyes and skin.

Avoid creating dusty conditions and prevent wind dispersal.

Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Take measures against static discharge.

Keep away from sources of ignition.

Use suitable protective equipment.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store in a dry, cool and well-ventilated area.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

DNELs

Oral	DNEL - Long-term exposure - systemic effects	16.6 mg/kg bw/day (Consumer)
Dermal	DNEL - Long-term exposure - systemic effects	31.25 mg/kg bw/day (Consumer)

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Inhalative	DNEL - Long-term exposure - local effects	62.5 mg/kg bw/day (workers) 0.06 mg/m ³ (Consumer)
	DNEL - Long-term exposure - systemic effects	0.1 mg/m ³ (workers) 3 mg/m ³ (workers)
	DNEL - Short-term exposure - systemic effects	1.5 mg/m ³ (Consumer)
	PNECs	
PNEC	0.34 mg/L (Water (Freshwater)) 0.034 mg/L (Water (Marine Water)) 100 mg/L (Sewage Treatment Plant (STP))	
PNEC	0.175 mg/kg sedim. dw (Sediment (Marine Water)) 1.75 mg/kg sedim. dw (Sediment (Freshwater))	
PNEC	0.151 mg/kg soil dw (Soil)	

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures:

Ensure good ventilation/exhaustion at the workplace.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Respiratory protection: Use P2 dusk mask/filter.

Protection of hands:



Protective gloves.

Material of gloves:

Butyl rubber (0.5 mm), nitrile rubber (0.35 mm), PVC (0.5 mm), neoprene (0.5 mm), Viton (0.4 mm).

Eye protection:



Safety glasses with side-shields (EN 166).

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid.

Colour: Not determined.

Odour: Odourless or with a slight benzaldehyde odor.

Odour threshold: Not determined.

pH-value: Not applicable.

Melting point/freezing point: 122 °C

Initial boiling point and boiling range: 249.2 °C

Flash point: Not applicable.

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Flammability (solid, gas):	Product is not flammable.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Oxidising properties	Not oxidising.
Vapour pressure at 20 °C:	0.0011 hPa
Density at 20 °C:	1.321 g/cm ³
Relative density	1.321
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water at 25 °C:	3.5 g/l
Partition coefficient: n-octanol/water: Log Kow:	1.88
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under normal conditions of use, storage, and transport.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid Avoid all sources of ignition: heat, sparks, open flames.

10.5 Incompatible materials Strong oxidising materials, reducing agents, bases, moisture, metals.

10.6 Hazardous decomposition products phenol, benzene.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

LD/LC50 values:

Oral	LD50	2,360 mg/kg (Rat) (OECD 401)
Dermal	LD50	>2,000 mg/Kg bw (Rabbit)
Inhalative	LC50/4h	>12,200 mg/m ³ (Rat)

Primary irritant effect:

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage. Severely irritating, rabbit, OECD 405.

Respiratory or skin sensitisation: Not sensitising, mouse, Kimber et al., 1989.

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Trade name: Benzoic acid**Reproductive toxicity:**

Reproductive toxicity NOAEL values		
Oral	NOEL	>0.01 in diet (Rat) (OECD 416, fertility) 0.02 in diet (Rat) (OECD 414, development)
Repeated dose toxicity		
Oral	NOAEL	1,000 mg/kg bw/day (Rat)
Dermal	NOAEL	>2,500 mg/kg bw/day (Rabbit) (EPA OPP 82-2)
Inhalative	NOAEL	250 mg/m ³ air (Rat) (OECD 412)

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**Germ cell mutagenicity:** Negative, OECD 487, 475.**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:**

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

Aspiration hazard: Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****12.1 Toxicity**

Aquatic toxicity:	
LC50/48h	>100 mg/L (Daphnia Magna) (EPA-660/3-75-009)
LC50/96h	47.3 mg/L (Fish) (EPA-660/3-75-001)
NOEC/21d	>25 mg/L (Daphnia Magna) (OECD 211)
NOEC/28d	>120 mg/L (Fish) (OECD 204)
IC50/3h	>1,000 mg/L (Microorganisms) (OECD 209)
ErC50/72h	>33.1 mg/L (Algae) (OECD 201)

12.2 Persistence and degradability Readily biodegradable**12.3 Bioaccumulative potential** Bioaccumulation is not expected due to log Kow.**12.4 Mobility in soil** Calculated Koc: 15.49.**Additional environmental 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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

12.5 Results of PBT and vPvB assessment**PBT:** No PBT.**vPvB:** No vPvB.**12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation:**

Disposal must be made in accordance with official regulations.

Controlled biodegradation in waste water treatment is possible.

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SECTION 14: Transport information

14.1 UN Number

ADR, IMDG, IATA Not applicable.

14.2 UN proper shipping name

ADR, IMDG, IATA Not applicable.

14.3 Transport hazard class(es)ADR, ADN, IMDG, IATA
Class Not applicable.**14.4 Packing group**

ADR, IMDG, IATA Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**Directive 2012/18/EU****Named dangerous substances - ANNEX I** Substance is not listed.**15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1