

Benzoic Acid

Safety Data Sheet

according to the United Nations GHS (Rev. 7, 2017)

Issue date: 18/08/2020

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Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form	: Substance
Trade name	: Benzoic Acid
EC-No.	: 200-618-2
EC Index-No.	: 607-705-00-8
CAS-No.	: 65-85-0
CSCL No.	: (3)-1397
ISHL No.	: (3)-1397
KECI-No.	: KE-02696
Formula	: C7H6O2

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended uses and restrictions	: No information available
Recommended use	: Used as intermediates for pharmaceuticals and dyes, as preservatives for medicines, foods and feeds, as well as rust inhibitors for steel equipment

1.4. Supplier's details

Supplier

Wuhan Youji Industries Co., Ltd
No.1, 2nd Chemical Rd., Wuhan Chemical Industry Park, Wuhan, China
430082
F +86-027-83832423
organic@chinaorganic.com - <http://www.chinaorganic.com>

1.5. Emergency phone number

Emergency number : +86-027-83412982

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity — Repeated exposure, Category 1	H372

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects : Causes damage to organs through prolonged or repeated exposure, Causes skin irritation, Causes serious eye damage.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :



GHS05

GHS08

Signal word (GHS UN) :

: Danger

Hazard statements (GHS UN) :

: H315 - Causes skin irritation
H318 - Causes serious eye damage
H372 - Causes damage to organs through prolonged or repeated exposure

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Precautionary statements (GHS UN) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection
P302+P352 - IF ON SKIN: Wash with plenty of water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance identification codes: See section 1.1

Name	Product identifier	%
Benzoic acid	(CAS-No.) 65-85-0	≥ 99
Phthalic anhydride	(CAS-No.) 85-44-9	≤0.3
Biphenyls (including biphenyl and methyl biphenyl)	-	≤0.4
Benzyl benzoate	(CAS-No.) 120-51-4	≤0.3

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Remove contaminated clothing and shoes. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. In the case of skin irritation or allergic reactions see a physician. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

First-aid measures after inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Serious damage to eyes.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, water spray or alcohol-resistant foam.
Unsuitable extinguishing media : High volume water jet.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Thermal decomposition can lead to release of irritating and toxic gases and vapors, such as carbon monoxide, carbon dioxide.

5.3. Special protective actions for fire-fighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Wear personal protective equipment. Keep upwind. Cool containers / tanks with spray water if possible.

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Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions, Protective Equipment and Emergency Procedures : Evacuate personnel to safe areas. Keep away from heat, sparks, flame and other sources of ignition. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

6.1.1. For non-emergency personnel

Protective equipment : Wear proper protective equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Stop leak if safe to do so. Evacuate personnel to a safe area. Ensure adequate ventilation, especially in confined areas.

6.2. Environmental precautions

Avoid release to the environment. Do not flush into surface water or sewer system.

6.3. Methods and materials for containment and cleaning up

For containment : Sweep or shovel spills into appropriate container for disposal.
Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, flame and other sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse.
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Remove all sources of ignition.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Solid

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Appearance	: White scaly or needle-like crystals
Colour	: White
Odour	: Odor of benzaldehyde
Odour threshold	: Not available
Melting point	: 122°C
Freezing point	: Not applicable
Boiling point	: 249°C
Flammability (solid, gas)	: Non flammable.
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 2.8
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: Not applicable
Partition coefficient n-octanol/water (Log Pow)	: 1.88
Vapour pressure	: 0.0011 hPa (at 20 °C)
Vapour pressure at 50 °C	: Not available
Density	: 1.27 g/cm ³
Relative density	: Not available
Relative vapour density at 20 °C	: Not applicable
Solubility	: 3.5g/l (at 25 °C)
Explosive properties	: Non explosive
Oxidizing properties	: No oxidizing properties
Surface tension	: 67.5 mN/m (20 °C, 1000 mg/L)
pKa	: 4.19 (20 °C)

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Dust could form explosive mixtures with air.

10.4. Conditions to avoid

Heat, sparks, flames, incompatible materials. Prevent formation of dust clouds. Incompatible materials

10.5. Incompatible materials

Strong oxidizing materials, reducing agents, bases, moisture, metals.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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LD50 oral rat	2250 mg/kg
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LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 12.2 mg/l (Exposure time: 4 h)

Skin corrosion/irritation	: Causes skin irritation. pH: 2.8
Serious eye damage/irritation	: Causes serious eye damage. pH: 2.8
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Benzoic acid (CAS #: 65-85-0)	> 33.1: 72 h Pseudokirchnerella subcapitata mg/L EC50 3.4: 72 h Pseudokirchnerella subcapitata mg/L EC10	44.6: 96 h Lepomis macrochirus mg/L LC50 > 120: 28 d Oncorhynchus mykiss mg/L NOEC	> 100: 48 h Daphnia magna mg/L LC50 >= 25: 21 d Daphnia magna mg/L NOEC

12.2. Persistence and degradability

Benzoic Acid (65-85-0)	
Persistence and degradability	Readily biodegradable

12.3. Bioaccumulative potential

Benzoic Acid (65-85-0)	
Bioaccumulative potential	Log Pow: 1.88

12.4. Mobility in soil

Benzoic Acid (65-85-0)	
Mobility in soil	Half-life in soil: 0.84 d (20 °C) Koc: 15.49 (20 °C).

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

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SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

UN RTDG	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No

14.6. Special precautions for user

- UN RTDG

No data available

- IMDG

No data available

- IATA

No data available

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Regulatory reference

: Listed on the AICS (Australian Inventory of Chemical Substances). Listed on the Canadian DSL (Domestic Substances List). Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China). Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances). Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory. Listed on the Japanese ISHL (Industrial Safety and Health Law). Listed on KECL/KECI (Korean Existing Chemicals Inventory). Listed on NZIoC (New Zealand Inventory of Chemicals). Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances). Listed on the United States TSCA (Toxic Substances Control Act) inventory. Listed on the Canadian IDL (Ingredient Disclosure List). Listed on INSQ (Mexican National Inventory of Chemical Substances). Listed on the TCSI (Taiwan Chemical Substance Inventory).

State or local regulations

: U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities. U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1. U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2. U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity. U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1. U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2. U.S. - Massachusetts - Right To Know List. U.S. - Massachusetts - Toxics Use Reduction Act. U.S. - Michigan - Polluting Materials List. U.S. - Minnesota - Groundwater Health Risk Limits. U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances. U.S. - New Jersey - Right to Know Hazardous Substance List. U.S. - New Jersey - Water Quality - Ground Water Quality Criteria. U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs). U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances. U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List. U.S. - Pennsylvania - RTK (Right to Know) List. U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour. U.S. - Texas - Effects Screening Levels - Long Term. U.S. - Texas - Effects Screening Levels - Short Term.

SECTION 16: Other information

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Data sources : Loli.

Full text of H-statements:	
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H372	Causes damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects.

SDS UN

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.