Richest Group
No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Tel: 0086 21 5017 5386
E-mail: inquiry@richest-group.com
Web: www.richest-group.com

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Benzoic Acid	**Revision date:** 2026-10-29	**Version:** 1.0	**Brand:** Richest

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

Product name	Benzoic Acid
Synonyms	Benzenecarboxylic acid; Phenylformic acid; E210
CAS No.	65-85-0
EC No.	200-618-2
Molecular formula	C7H6O2
Molecular weight	122.12 g/mol
Relevant identified uses	Preservative for food, beverage, cosmetics and pharmaceuticals; intermediate for benzoates, plasticizers and alkyd resins; industrial raw material
Uses advised against	None
Company	Richest Group Ltd.
Address	No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Telephone	+86 21 5017 5386
WhatsApp	+86 13472638548
E-mail	inquiry@richest-group.com
Website	www.richest-group.com
Emergency telephone number	+86 13472638548

SECTION 2: Hazards identification

GHS Classification	Skin irritation Category 2 Serious eye damage Category 1 Specific target organ toxicity - single exposure Category 3 (Respiratory system)
Pictogram(s)	GHS05 (Corrosion), GHS07 (Exclamation mark)
Signal word	Danger
Hazard statement(s)	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary statement(s)	P261 Avoid breathing dust. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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.
Other hazards	Fine dust may form explosive mixtures with air.

SECTION 3: Composition/information on ingredients

Component	Benzoic acid
CAS No.	65-85-0
EC No.	200-618-2
Classification	Skin Irrit. 2; Eye Dam. 1; STOT SE 3; H315, H318, H335
Concentration (%)	≤100 %

SECTION 4: First aid measures

If inhaled	Remove person to fresh air and keep comfortable for breathing. If symptoms persist, consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Take off contaminated clothing. If skin irritation occurs, get medical advice/attention.
In case of eye contact	Rinse cautiously with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
If swallowed	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if you feel unwell.
Most important symptoms and effects	Causes skin irritation. Causes serious eye damage. May cause respiratory irritation, cough and shortness of breath.
Indication of any immediate medical attention	Treat symptomatically. Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO2)
Unsuitable extinguishing media	Do NOT use water jet.

Special hazards arising from the chemical	Carbon oxides. Dust may form explosive mixture with air.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing dust. Avoid dust formation. Ensure adequate ventilation. Avoid contact with skin and eyes.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling	Avoid formation of dust and aerosols. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well-ventilated place. Store in a cool place away from oxidizing agents and strong bases.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	ACGIH TLV: 0.5 mg/m³ TWA (inhalable fraction and vapor); MAK: 0.5 mg/m³ (respirable fraction)
Biological limit values	No biological exposure index (BEI) established.
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Wash hands before breaks and at the end of workday.
Eye/face protection	Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use (EN 374). Wash and dry hands after use.
Body protection	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Where protection from nuisance levels of dusts is desired, use type P1 (EN 143) dust masks. For higher level protection use a full-face respirator with appropriate cartridges.

Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Solid (flakes or crystalline powder)
Colour	White
Odour	Odourless to faint, pleasant odour
Melting point / freezing point	121 - 124 °C
Boiling point or initial boiling point and boiling range	249 °C (lit.)
Flammability	Combustible solid; dust may form explosive mixtures with air
Lower and upper explosion limit / flammability limit	Not determined; dust may form explosive mixtures with air
Flash point	121 °C - closed cup
Auto-ignition temperature	570 °C
Decomposition temperature	No data available
pH	ca. 2.8 (saturated aqueous solution)
Kinematic viscosity	Not applicable (solid)
Solubility	Slightly soluble in water (approx. 3.4 g/l at 25 °C); soluble in ethanol and ether
Partition coefficient n-octanol/water	log Pow: 1.88
Vapour pressure	< 0.01 hPa at 20 °C
Density and/or relative density	1.321 g/cm3
Relative vapour density	4.2 (Air = 1.0)
Particle characteristics	Crystalline flakes/powder

SECTION 10: Stability and reactivity

Reactivity	The solution in water is a weak acid; at high temperature can react with oxidizing reagents; vapor from molten benzoic acid may form explosive mixture with air
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts with strong oxidants, strong reducing agents and strong bases (fire/explosion hazard); produces irritating or toxic fumes on decomposition;

	finely powdered dry acid is a significant dust explosion hazard
Conditions to avoid	Dust formation; heat, flames and sparks.
Incompatible materials	Strong oxidizing agents, strong bases
Hazardous decomposition products	Carbon oxides (formed under fire conditions)

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat - 1,700 mg/kg LD50 Dermal - Rabbit - > 10,000 mg/kg Inhalation: No data available
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	Not classified (based on available data)
Germ cell mutagenicity	Ames test (Salmonella typhimurium): negative.
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Not classified (based on available data)
STOT - single exposure	May cause respiratory irritation - Respiratory system.
STOT - repeated exposure	Not classified (based on available data)
Aspiration hazard	Not classified (based on available data)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	Toxicity to fish: LC50 - Leuciscus idus (golden orfe) - 460 mg/l - 48 h Toxicity to daphnia: EC50 - Daphnia magna (Water flea) - 860 mg/l - 24 h Toxicity to algae: EC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h
Persistence and degradability	Readily biodegradable.
Bioaccumulative potential	Low bioaccumulation potential (log Pow = 1.88).
Mobility in soil	Mobile in soil.
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Offer surplus and non-recyclable solutions to a licensed disposal company.

	Waste material must be disposed of in accordance with applicable national
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	Not regulated as dangerous goods
UN Proper Shipping Name	Not regulated as dangerous goods
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards (Marine pollutant)	No
Special precautions for user	No special precautions required during transport.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	EINECS: Listed (200-618-2) TSCA: Listed IECSC: Listed China Catalog of Hazardous Chemicals 2015: Not listed

SECTION 16: Other information

Full text of H-Statements	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Revision date	2026-10-29
Version	1.0

Abbreviations and acronyms: CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

References: ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

Disclaimer: The information in this SDS is only applicable to the specified product and is provided in good faith. It is based on the knowledge available to Richest Group Ltd. at the date of issue and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute any guarantee of the properties of the product. Richest Group Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.