

Safety Data Sheet **BENZOIC ACID**

SDS no. TRBMQR6S • Version 1.0 • Date of issue: 2025-12-20

SECTION 1: Identification

GHS Product identifier

Product name BENZOIC ACID

Product number BA020

Recommended use of the chemical and restrictions on use

Sodium and butyl benzoates, plasticizers, benzoyl chloride, alkyd resins, food preservative, seasoning tobacco, flavours, perfumes, dentifrices, standard in analytical chemistry, antifungal agent and laboratory reagent.

Supplier's details

Name ChemSupply Australia Pty Ltd
Address 38-50 Bedford Street
5013 Gillman South Australia
Australia

Telephone 08 8440 2000
email www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity following repeated exposure, Cat. 1

GHS label elements, including precautionary statements

Pictograms



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Signal word

Danger

Hazard statement(s)

H315

H318

H372

Causes skin irritation

Causes serious eye damage

Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P260

P264

P270

P280

P302+P352

P305+P351+P338

P310

P332+P313

P362+P364

P501

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash hands thoroughly after handling.

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

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water/soap

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

Immediately call a POISON CENTER/doctor/physician

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight	122.12	
Component	Identification	Weight %
Benzoic acid	CAS no.: 65-85-0 EC no.: 200-618-2 Index no.: 607-705-00-8	<= 100 %

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

In case of skin contact

Rinse with plenty of water. Get medical attention if irritation develops and persists.

In case of eye contact

If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.

If swallowed

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use water spray, dry chemical, carbon dioxide or alcohol-resistant foam.

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Specific hazards arising from the chemical

Hazards from Combustion Products: Oxides of carbon.

Special protective actions for fire-fighters

Wear SCBA and structural firefighter's uniform.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. For personal protection see section 8.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

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

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

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Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	White scales or needle crystals.
Color	No data available.
Odor	Almost odourless to odour of benzoin or benzaldehyde.
Odor threshold	No data available.
Melting point/freezing point	121 - 123 °C
Boiling point or initial boiling point and boiling range	249 °C (partially sublimes at 100 °C)
Flammability	No data available.
Lower and upper explosion limit/ flammability limit	No data available.
Flash point	121 °C (closed cup)
Explosive properties	No data available.
Auto-ignition temperature	570 °C
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	pH 2.5 - 3.5 @ 20°C (~1g/l, H ₂ O)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Practically insoluble, 2.9 g/l (25°C). Solubility in Organic Solvents: Soluble in alcohol, ether, acetone, chloroform, petroleum ether, carbon disulfide, carbon tetrachloride and turpentine.
Partition coefficient n-octanol/ water (log value)	log P(o/w): 1.88
Vapor pressure	0.001 hPa @ 20 °C; 1.3hPa @ 96°C
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 1.32
Relative vapor density	4.21 (air = 1)

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Particle characteristics	No data available.
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Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

May react violently or explosively in contact with oxidising agents. May react violently in contact with alkalis.

Hazardous Polymerization: Will not occur.

Conditions to avoid

Strong heating.

Incompatible materials

Oxidising agents, oxygen, fluorine and alkalis.

Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Inhalation: LC50 (rat): > 12.2 mg/l 4h.

Ingestion: Mucosal irritations, nausea and vomiting.

Inhalation: Cough; dust may cause irritation of the nose, throat and upper respiratory passages.

Skin corrosion/irritation

Causes skin irritation.

Skin corrosion/irritation: Skin Corrosion/Irritation: Category 2

H315 Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Serious eye damage/irritation: Eye Damage/Irritation: Category 1

H318 Causes serious eye damage.

Respiratory or skin sensitization

Not classified based on available information.

Germ cell mutagenicity

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Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Specific target organ toxicity (STOT) - single exposure

Specific target organ toxicity: Single Exposure Category 3 (respiratory tract irritation)
H335 May cause respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Aspiration hazard

Not classified based on available information.

SECTION 12: Ecological information

Toxicity

Acute Toxicity - Fish: LC50 (*L. macrochirus*): 44.6 mg/l /96 h.

Acute Toxicity - Daphnia: EC50 (*Daphnia magna*): >100 mg/l /48h.

Acute Toxicity - Algae: EC50 (*Pseudokirchneriella subcapitata*): 33.1 mg/l /72 h.

Persistence and degradability

anaerobic - Exposure time 35 d

Result: 89.5 % - Biodegradable (OECD Test Guideline 311)

Bioaccumulative potential

Behaviour in environmental compartments:

Distribution: log P(o/w): 1.88

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Sewage disposal

Behaviour in environmental compartments:

Distribution: log P(o/w): 1.88

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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SECTION 15: Regulatory information

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

Australia SUSMP

Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

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Preparation information

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)