



Infosafe No™	1CH9Q	Issue Date : January 2016	RE-ISSUED by CHEMSUPP
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Product Name : **BENZOIC ACID**

Classified as hazardous

1. Identification

GHS Product Identifier	BENZOIC ACID	
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
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.	
Other Names	Name	Product Code
	BENZOIC ACID LR	BL020
	Benzenecarboxylic acid, Benzeneformic acid, Benzenemethanoic acid, Carboxybenzene., Phenylformic acid	
	BENZOIC ACID AR	BA020
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.	

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture	Eye Damage/Irritation: Category 1 Skin Corrosion/Irritation: Category 2 Specific target organ toxicity: Single Exposure Category 3 (respiratory tract irritation)
Signal Word (s)	DANGER
Hazard Statement (s)	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Pictogram (s)	Corrosion, Exclamation mark



Precautionary statement – Prevention	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	SKIN: P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. EYES: 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 or doctor/physician. INHALED: P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



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Precautionary statement – Storage	P312 Call a POISON CENTER or doctor/physician if you feel unwell. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Precautionary statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical Solid

Characterization

Ingredients

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
Benzoic acid	65-85-0	100 %		

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	Oxides of carbon.
Specific Methods	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of 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.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid substance contact and generation and inhalation of dust. Wash hands and face thoroughly after working with material.
Conditions for safe storage, including any incompatibilities	Store away from oxidizing agents. Keep container tightly closed in a dry, well-ventilated place away from direct sunlight and other sources of heat or ignition. Store at room temperature (15 - 25 °C).

8. Exposure controls/personal protection

Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m ³ for dusts when limits have not otherwise been established.
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Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
Eye 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.
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Excellent: Vinyl gloves. Good: Neoprene gloves Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Body Protection	Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	White scales or needle crystals.
Odour	Almost odourless to odour of benzoin or benzaldehyde.
Melting Point	121 - 123 °C
Boiling Point	249 °C (partially sublimes at 100 °C)
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.
Specific Gravity	1.32
pH	pH 2.5 - 3.5 @ 20°C (~1g/l, H ₂ O)
Vapour Pressure	0.001 hPa @ 20 °C 1.3hPa @ 96°C
Vapour Density (Air=1)	4.21 (air = 1)
Partition Coefficient: n-octanol/water	log P(o/w): 1.88
Flash Point	121 °C (closed cup)
Flammability	Combustible.
Auto-Ignition Temperature	570 °C
Molecular Weight	122.12

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage.
Conditions to Avoid	Strong heating.
Incompatible Materials	Oxidising agents, oxygen, fluorine and alkalis.
Possibility of hazardous reactions	May react violently or explosively in contact with oxidising agents. May react violently in contact with alkalis.



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Hazardous Polymerization	Will not occur.
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11. Toxicological Information

Toxicology Information	No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled or overexposed to this product the following symptom or effects may occur.
Acute Toxicity - Oral	LD50 (rat): >2000 mg/kg.
Acute Toxicity - Dermal	LD50 (rabbit): >5000 mg/kg.
Acute Toxicity - Inhalation	LC50 (rat): > 12.2 mg/l 4h.
Ingestion	Mucosal irritations, nausea and vomiting.
Inhalation	Cough; vapour or dust may cause irritation of the nose, throat and upper respiratory passages.
Skin	Causes skin irritation.
Eye	Rabbit: Causes serious eye damage.
Skin Sensitisation	Skin contact or ingestion of benzoic acid has produced allergies in humans. Sensitized people who contact or ingest benzoic acid react with hives (reddening, patchy swelling, 'burning' sensation and itching) or asthmatic wheezing. In severely affected persons, symptoms may worsen to anaphylactic shock with violent cough, chest constriction, difficulty breathing, convulsions, collapse and death.
Germ cell mutagenicity	Ames test result: negative.
Carcinogenicity	Not listed in the IARC Monographs.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecological Information	No ecological problems are to be expected when the product is handled and used with due care and attention.
Persistence and degradability	Biological degradableness: >71 %/ 5 d (test in closed bottle). Readily biodegradable. >90% / 2 d Readily eliminated from water.
Bioaccumulative Potential	Behaviour in environmental compartments: Distribution: log P(o/w): 1.88 No appreciable bioaccumulation potential is to be expected (log P(o/w) 1-3). Bioaccumulation: Leuciscus idus (Golden orfe) 3d / 50 µg/l.
Known Harmful Effects on the Environment	Harmful effect on aquatic organisms.
Acute Toxicity - Fish	LC50 (L. macrochirus): 44.6 mg/l /96 h.
Acute Toxicity - Daphnia	EC50 (Daphnia magna): 860 mg/l /48h.
Acute Toxicity - Algae	EC50 (Pseudokirchneriella subcapitata): 33.1 mg/l /72 h.

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS).
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Safety Data Sheet

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Poisons Schedule Not Scheduled**16. Other Information****Literature
References**

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 Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.
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 Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
 Safe Work Australia, 'Hazardous Substances Information System, 2005'.
 Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
 Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.

**Contact
Person/Point**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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**Empirical Formula &
Structural Formula**

C7 H6 O2
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