

Infosafe No™ 1CH9X	Issue Date :August 2021	RE-ISSUED by CHEMSUPP
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Product Name **SODIUM BENZOATE**

Not classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	SODIUM BENZOATE						
<b>Company Name</b>	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)						
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia						
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000						
<b>Emergency phone number</b>	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)						
<b>E-mail Address</b>	www.chemsupply.com.au						
<b>Recommended use of the chemical and restrictions on use</b>	Preservative in foods, cosmetics, mouthwashes, pharmaceuticals and water-based paints; tobacco; corrosion inhibitor in engine cooling systems and water-based paints; production of razor blades, engine parts, bearings, etc.; chemical intermediate for manufacture of dyes; rust and mildew inhibitor; antiseptic; medicine; pharmaceutical preparations; diagnostic reagent for liver functions; nerve stimulant in combination with caffeine and laboratory reagent.						
<b>Other Names</b>	<table border="0" style="width:100%"> <tr> <td style="text-align: left;"><u>Name</u></td> <td style="text-align: right;"><u>Product Code</u></td> </tr> <tr> <td>SODIUM BENZOATE LR</td> <td style="text-align: right;">SL035</td> </tr> <tr> <td>SODIUM BENZOATE Food Grade</td> <td style="text-align: right;">SP035</td> </tr> </table>	<u>Name</u>	<u>Product Code</u>	SODIUM BENZOATE LR	SL035	SODIUM BENZOATE Food Grade	SP035
<u>Name</u>	<u>Product Code</u>						
SODIUM BENZOATE LR	SL035						
SODIUM BENZOATE Food Grade	SP035						

### Other Information

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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

<b>GHS classification of the substance/mixture</b>	Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Not classified as dangerous goods according to the ADG Code.
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## 3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Sodium benzoate	532-32-1	100 %

## 4. First-aid measures

<b>Inhalation</b>	Remove victim to fresh air. Seek medical advice if effects persist.
<b>Ingestion</b>	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.
<b>Skin</b>	Wash with plenty of soap and water. If irritation occurs seek medical advice.
<b>Eye contact</b>	If contact with the eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding eyelids(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation develops seek medical attention.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of

Infosafe No™ 1CH9X	Issue Date : August 2021	RE-ISSUED by CHEMSUPP
--------------------	--------------------------	-----------------------

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**Other Information** the patient.  
Consider the effects of sodium on the respiratory system.  
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** May liberate toxic and corrosive fumes in fire including disodium oxide, sodium/sodium oxides, benzoic acid, sodium carbonate, carbon monoxide, carbon dioxide.

**Specific Methods** Small fire: Use dry chemical, CO<sub>2</sub>, water spray or foam.  
Large fire: Use water spray, fog or 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** May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes.

**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 generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing. Use in well ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment.

**Conditions for safe storage, including any incompatibilities** Store in a tightly closed container, in a cool, dry, ventilated area away from incompatibles. Store away from oxidizing agents. Hygroscopic. Keep well closed and protected from direct sunlight and moisture. Containers should be kept closed as much as possible. Protect from physical damage. Avoid dust formation and control ignition sources.

**Corrosiveness** Corrosivity to Metals: Not corrosive. Pure, solid sodium benzoate is not corrosive to copper, Incolloy, silicon copper, steel, cast iron, stainless steel (types 26-1, 304 and 316), nickel alloys, tantalum and titanium (corrosion rate less than 0.05 mm/year); or to aluminium, Hastelloy, Inconel, Monel, nickel and silicon bronze (corrosion rate less than 0.5 mm/year). Sodium benzoate solutions (5-60% concentrations in water) are not corrosive to copper and bronze (corrosion rate less than 0.05 mm/year) or to steel, cast iron, stainless steel (types 12 Cr, 17 Cr, 26-1, 304, 316 and 20-25-4.5), brass, nickel and its alloys and titanium (corrosion rate less than 0.5 mm/year) at 25-93 °C.  
Corrosivity to Non-Metals: Pure, solid sodium benzoate does not attack plastics, such as acrylonitrile-butadiene-styrene (ABS), chlorinated polyether (Penton), chlorinated polyvinyl chloride (CPVC), E-CTFE (Halar), ETFE (Tetzel), FEP, nylon, Teflon, polyethylene, polypropylene, polyvinyl chloride (PVC), polyvinylidene fluoride (PVDF; Kynar) and vinyl ester; and elastomers, such as Chemraz (FPM), Fluorocarbon FKM, chloroprene, ethylene-propylene-diene (EPDM), ethylene-propylene terpolymer (EPT), Kalrez (FPM), Nitrile Buna-N (NBR) and Nordel (EPDM). Teflon is resistant greater than 238 deg C and FEP is resistant to 204 °C.

**Storage Temperatures** Store at room temperature (15 to 25 °C recommended).

## 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

Infosafe No™ 1CH9X	Issue Date : August 2021	RE-ISSUED by CHEMSUPP
--------------------	--------------------------	-----------------------

Product Name **SODIUM BENZOATE**

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<b>Appropriate engineering controls</b>	blanket limit of 10 mg/m <sup>3</sup> for dusts when limits have not otherwise been established. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. 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.
<b>Respiratory Protection</b>	Usually is not required. Where protection is required from nuisance levels of dust or mists select respiratory protection that complies with AS 1716 - Respiratory Protective Devices and select in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels.
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.
<b>Personal Protective Equipment</b>	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
<b>Body Protection</b>	Flame retardant antistatic protective clothing. 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.
<b>Hygiene Measures</b>	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

<b>Form</b>	Solid
<b>Appearance</b>	White, granules, crystalline powder or flakes.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	410 - 430 °C
<b>Boiling Point</b>	Does not boil (decomposes).
<b>Solubility in Water</b>	Very soluble (61-63 g/100 mL at 25 °C).
<b>Solubility in Organic Solvents</b>	Moderately soluble in ethanol (1.3 g/100 mL); soluble in glycerol and methanol.
<b>Specific Gravity</b>	1.44 (water = 1).
<b>pH</b>	pH 7.0 - 8.5 (144.1 g/l @ 25 °C).
<b>Vapour Pressure</b>	Not applicable. Does not form vapour.
<b>Partition Coefficient: n-octanol/water</b>	log P(o/w) = -2.27
<b>Flash Point</b>	>100°C
<b>Flammability</b>	Combustible.
<b>Auto-Ignition Temperature</b>	> 500 °C
<b>Flammable Limits - Lower</b>	Airborne dust can be ignited.

Infosafe No™ 1CH9X	Issue Date : August 2021	RE-ISSUED by CHEMSUPP
--------------------	--------------------------	-----------------------

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**Explosion Properties** Potential for Dust Explosions: Under certain conditions, sodium benzoate dust can explode when ignited by an electrostatic spark, other high-voltage sparks or other ignition source. When evaluating the explosion hazard of a specific process or sample of material, the important factors to consider include: particle size and shape, dust concentration, the nature of any impurities, oxygen concentration, humidity, and extent of containment.  
 Minimum Ignition Temperature (Cloud): 560 °C.  
 Minimum Ignition Temperature (Layer): 680 °C.  
 Minimum Explosible Concentration: 50 g/m<sup>3</sup>.  
 Minimum Cloud Ignition Energy: 80 millijoules (mj).  
 Maximum Explosion Pressure: 630 kPa (6.3 bar; 91 psi).  
 Maximum Rate of Pressure Rise: 25600 kPa/sec (256 bar/sec; 3700 psi/sec).

**Molecular Weight** 144.11

## 10. Stability and reactivity

**Chemical Stability** Stable under ordinary conditions of use and storage. Hygroscopic

**Conditions to Avoid** Generation of dust, exposure to moist air or water, static charge, sparks, heat and other ignition sources.

**Incompatible Materials** Strong oxidizing agents (e.g. calcium hypochlorite, nitric acid, perchlorates), acids (e.g. hydrochloric acid, sulfuric acid), ferric salts, alkalis, mineral acids.

**Hazardous Decomposition Products** Disodium oxide, sodium/sodium oxides, benzoic acid, sodium carbonate, carbon monoxide, carbon dioxide.

**Possibility of hazardous reactions** Can react vigorously with strong oxidizing agents (e.g. calcium hypochlorite, nitric acid, perchlorates), with an increased risk of fire.  
 May react vigorously with acids (e.g. hydrochloric acid, sulfuric acid) - to produce benzoic acid.

**Hazardous Polymerization** Will not occur.

## 11. Toxicological Information

**Ingestion** May cause digestive tract irritation.

**Inhalation** May cause respiratory tract irritation.

**Skin** No adverse effects due to skin contact are expected.

**Eye** Direct contact with eyes may cause temporary irritation.

**Respiratory sensitisation** Not classified based on available information.

**Skin Sensitisation** Not classified based on available information.

**Germ cell mutagenicity** Not classified based on available information.

**Carcinogenicity** Not listed in the IARC Monographs.  
 Not classified based on available information.

**Reproductive Toxicity** Not classified based on available information.

**STOT-single exposure** Not classified based on available information.

**STOT-repeated exposure** Not classified based on available information.

**Chronic Effects** This material is normally rapidly excreted from the body, but in cases of impaired renal function, dangerous quantities of this salt may build up. Repeated or prolonged exposure may cause non-allergic hives, itchiness and a skin rash in sensitive individuals. Ingestion of very high doses (up to 2%) has not produced significant harmful effects. Extremely high doses (4 or 8%) have caused deaths.

**Serious eye damage/irritation** Not classified based on available information.

Infosafe No™ 1CH9X	Issue Date : August 2021	RE-ISSUED by CHEMSUPP
--------------------	--------------------------	-----------------------

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**Skin corrosion/irritation** Not classified based on available information.

## 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 degradability: 90% / 7 d. REadily biodegradable.

**Environmental Fate** Behaviour in environmental compartments:  
Distribution: log P(o/w) = -2.27

**Bioaccumulative Potential** No appreciable bioaccumulation potential is to be expected (log P(o/w) <1, 1-3).

## 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.

## 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.

## 15. Regulatory information

**Regulatory Information** All the constituents of this product are listed on the Australian Inventory of Chemical Substances ( AICS ), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

**Poisons Schedule** Not Scheduled

## 16. Other Information

**Literature References** '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'.  
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.  
Safe Work Australia, 'Hazardous Chemical Information System'.  
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.  
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

**Contact Person/Point** Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**  
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**Empirical Formula & Structural Formula** Empirical Formula: NaC7H5O2.  
Structural Formula: C6H5COONa.

...End Of MSDS...

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