



Infosafe No™	1CHHQ	Issue Date : September 2019	RE-ISSUED by CHEMSUPP
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Product Name : **BENZYL ALCOHOL**

Classified as hazardous

1. Identification

GHS Product Identifier	BENZYL ALCOHOL	
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	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
Recommended use of the chemical and restrictions on use	Perfumes and flavors; photographic developer for colour movie films; dyeing nylon filament; textiles, and sheet plastics; solvent for dyestuffs, cellulose esters, casein and waxes; heat-sealing polyethylene films; intermediate for benzyl esters and ethers; bacteriostat; microscopy; cosmetics, ointments, emulsions; ballpoint pen inks; stencil inks and laboratory reagent.	
Other Names	Name	Product Code
	BENZYL ALCOHOL LR	BL041
	Phenylmethanol	
	alpha-Hydroxytoluene	
	Phenylcarbinol	

Other Information

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	Acute Toxicity - Inhalation: Category 4 Acute Toxicity - Oral: Category 4 Eye Damage/Irritation: Category 2A
Signal Word (s)	WARNING
Hazard Statement (s)	H302 Harmful if swallowed. H332 Harmful if inhaled. H319 Causes serious eye irritation.
Pictogram (s)	Exclamation mark



Precautionary statement – Prevention	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.



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Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Benzyl alcohol	100-51-6	100 %	Xn	R20/22

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. Get medical aid if cough or other symptoms appear.

Ingestion 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.

Skin Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain 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 at once.

5. Fire-fighting measures

Hazards from Combustion Products May liberate toxic fumes from when heated including carbon dioxide and carbon monoxide.

Specific Methods No limitations to the type of extinguishing media.
Small fire: Use dry chemical, CO₂, 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. Containers may explode when heated. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive gases.

Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions Avoid inhalation, contact with skin, eyes and clothing.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

Environmental Precautions Avoid release to the environment.

7. Handling and storage

Precautions for Safe Handling Avoid prolonged or repeated contact with skin and eyes. Avoid breathing vapour, spray or mists. Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before reuse.

Conditions for safe storage, including any incompatibilities Store away from sources of heat or ignition. Keep in a cool, dry, well-ventilated place. Keep container tightly closed
Store away from odour sensitive materials. Keep at 15-25 °C.

Storage Temperatures <50°C



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8. Exposure controls/personal protection

Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m ³ . All atmospheric contamination should be kept to as low a level as is workable.
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. These methods should be used in preference to personal protective equipment.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.
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	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. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	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.
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 an 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	Liquid
Appearance	Clear, colourless liquid.
Odour	Slight aromatic odour.
Melting Point	-15 °C
Boiling Point	206 °C
Solubility in Water	Partially soluble (40 g/L @ 20 °C).
Solubility in Organic Solvents	Miscible with alcohol, acetone, ether, benzene and chloroform.
Specific Gravity	1.040 - 1.050 @ 25 °C
Vapour Pressure	0.07 hPa @ 20 °C
Vapour Density (Air=1)	3.72
Viscosity	0.005 Pas (25 °C)
Flash Point	101 °C (open cup); 96 °C (closed cup)
Flammability	Combustible.
Auto-Ignition Temperature	436 °C
Flammable Limits - Lower	1.3 Vol%
Flammable Limits - Upper	13 Vol%
Molecular Weight	108.14
Other Information	Sharp burning taste. Dielectric constant: 13.1 @ 20 °C



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Dipole moment: 1.7 Debye @ 20 °C
Heat of evaporation: 467 kJ/kg @ 205 °C
Refractive index: 1.5385 - 1.5405 @ 20 °C
Saturation concentration: 0.56 g/m³ @ 20 °C

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	May liberate toxic fumes from when heated including carbon dioxide and carbon monoxide.
Possibility of hazardous reactions	Can react with oxidising materials and acids.
Hazardous Polymerization	Will not occur.
Other Information	If product is heated over 100 °C, Benzyl alcohol containing hydrogen bromide and dissolved iron may polymerize with a rapid increase in temperature.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 1620 mg/kg.
Ingestion	Harmful if swallowed. Symptoms may include irritation of the throat, nausea, vomiting, diarrhoea, intoxication, headache, dizziness, gastric upset, possible vision defects, central nervous system depression, coma and death due to respiratory failure.
Inhalation	Harmful by inhalation. Symptoms may include respiratory tract irritation of nose and throat, coughing, shortness of breath, intoxication, headache, vertigo, stupor, collapse, coma and death. May cause respiratory sensitisation in sensitive individuals, producing asthma-like symptoms. Product may be absorbed into the bloodstream with symptoms similar to ingestion.
Skin	May cause irritation, redness, pain and tissue injury. May be absorbed through the skin with symptoms similar to ingestion.
Eye	Causes serious eye irritation, with redness, pain, watering and blurred vision. May cause eye damage.
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	No evidence of carcinogenic properties.
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	Symptoms of chornic exposure by inhalation or ingestion may include headache, giddiness, disturbance of vision, smell, taste and sleep, trembling of the limbs, weakness and mental excitement. These may be accompanied by loss of appetite, nausea, vomiting & diarrhoea. Prolonged or repeated exposure may cause a degreasing effect, and dermatitis. Rabbit: Slight eye irritation (OECD 405)
Serious eye damage/irritation	
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecological Information	Not considered to be persisyent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).
Persistence and degradability	Readily degradable in water, 92 -98%; 28d.



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Bioaccumulative Potential	No appreciable bioaccumulation is to be expected (log P(o/w) 1-3).
Information on Ecological Effects	Environmental information: log Pow: 1.05
Acute Toxicity - Fish	LC50 Pimephales promelas (flathead minnow):460 mg/l; 96h Method: EPA OPP 72-1 (Fish Acute Toxicity Test)
Acute Toxicity - Daphnia	EC50 Daphnia magna (Water flea): 230 mg/l; 48h OECD Test Guideline 202

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). 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. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical 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) 3rd Edition]'.
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Empirical Formula & Structural Formula C6H5CH2OH
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