

Safety Data Sheet **BENZYL ALCOHOL**

SDS no. UR1T3V4L • Version 1.0 • Date of issue: 2024-09-03

SECTION 1: Identification

GHS Product identifier

Product name BENZYL ALCOHOL

Other means of identification

Product Product Code

BENZYL ALCOHOL LR BL041

Phenylmethanol alpha-Hydroxytoluene

Phenylcarbinol

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.

Supplier's details

Name ChemSupply Australia Pty Ltd

Address 38-50 Bedford Street
5013 Gillman South Australia
Australia

Telephone 08 8440 2000

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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

- Acute toxicity, inhalation, Cat. 4

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- Acute toxicity, oral, Cat. 4
- Serious eye damage/eye irritation, Cat. 2A

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

Hazard statement(s)

H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled

Precautionary statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands 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.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell,
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.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 108.14

Components

Component	CAS no.	Concentration
Benzyl alcohol (EC no.: 202-859-9; Index no.: 603-057-00-5)	100-51-6	<= 100 % (weight)
CLASSIFICATIONS: Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4; Serious eye damage/eye irritation, Cat. 2A. HAZARDS: H302 - Harmful if swallowed; H319 - Causes serious eye irritation; H332 - Harmful if inhaled.		

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.

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In case of skin contact	Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention.
In case of 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
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

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

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

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

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.

Benzyl alcohol: Carbon oxides

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 inhalation, contact with skin, eyes and clothing.

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

Methods and materials for containment and cleaning up

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.

Avoid release to the environment.

SECTION 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 odour sensitive materials. Keep at 15-25 °C.

Storage Temperatures: <50°C

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 100-51-6 (EC: 202-859-9)

Benzyl alcohol

ACGIH: 10 ppm WEEL-TWA inhalation

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

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

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.

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	Liquid
Appearance	Clear, colourless liquid.
Color	No data available.
Odor	Slight aromatic odour.
Odor threshold	No data available.
Melting point/freezing point	-15 °C
Boiling point or initial boiling point and boiling range	206 °C
Flammability	No data available.
Lower and upper explosion limit/flammability limit	Flammable Limits - Lower: 1.3 Vol% Flammable Limits - Upper: 13 Vol%
Flash point	101 °C (open cup); 96 °C (closed cup)
Explosive properties	No data available.
Auto-ignition temperature	436 °C
Decomposition temperature	No data available.
Oxidizing properties	No data available.

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pH
Kinematic viscosity
Solubility

No data available.
Viscosity: 0.005 Pas (25 °C)
Solubility in Water: Partially soluble (40 g/L @ 20 °C). Solubility in Organic Solvents: Miscible with alcohol, acetone, ether, benzene and chloroform.
No data available.
0.07 hPa @ 20 °C
No data available.
Specific Gravity: 1.040 - 1.050 @ 25 °C
3.72
No data available.

Partition coefficient n-octanol/water (log value)
Vapor pressure
Evaporation rate
Density and/or relative density
Relative vapor density
Particle characteristics

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

Other Information: Sharp burning taste.
Dielectric constant: 13.1 @ 20 °C
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

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

Can react with oxidising materials and acids.

If product is heated over 100 °C, Benzyl alcohol containing hydrogen bromide and dissolved iron may polymerize with a rapid increase in temperature.

Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

Incompatible materials

Strong oxidising agents.

Benzyl alcohol: Strong oxidizing agents

Hazardous decomposition products

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

Benzyl alcohol: 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 - 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.

Benzyl alcohol: LD50 Oral - Rat - 1,230 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Excitement. Behavioral:Coma.

LD50 Oral - Rat - male - 1,620 mg/kg

Dermal: No data available

No data available

Skin corrosion/irritation

May cause irritation, redness, pain and tissue injury. May be absorbed through the skin with symptoms similar to ingestion.

Benzyl alcohol: Benzyl alcohol

OECD Test Guideline 404 Skin - Rabbit - 24 h

Result: No skin irritation

Serious eye damage/irritation

Causes serious eye irritation, with redness, pain, watering and blurred vision. May cause eye damage.

Serious eye damage/irritation: Rabbit: Slight eye irritation (OECD 405)

Benzyl alcohol: Benzyl alcohol

OECD Test Guideline 405 Eyes - Rabbit - 24 h

Result: Eye irritation

Respiratory or skin sensitization

Respiratory sensitisation: Not classified based on available information.

Benzyl alcohol: No data available.

Germ cell mutagenicity

Germ cell mutagenicity: Not classified based on available information.

Benzyl alcohol: No data available.

Carcinogenicity

Benzyl alcohol: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

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probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Not classified based on available information.

Benzyl alcohol: No data available.

Summary of evaluation of the CMR properties

Benzyl alcohol: No data available.

Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

Benzyl alcohol: No data available.

Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Benzyl alcohol: No data available.

Aspiration hazard

Benzyl alcohol: No data available.

Additional information

Chronic Effects: Symptoms of chronic 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.

SECTION 12: Ecological information

Toxicity

Ecological Information: Not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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

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Benzyl alcohol: Benzyl alcohol
LC50 - Lepomis macrochirus (bluegill) - 10 mg/l - 96 h

Benzyl alcohol
LC50 - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h

Benzyl alcohol
EC50 - Daphnia magna (water flea) - 55 mg/l - 24 h

Benzyl alcohol
LC50 Percutaneous - Lepomis macrochirus (Bluegill) - 10 mg/l - 96 h

Benzyl alcohol
LC50 Percutaneous - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h

Persistence and degradability

Readily degradable in water, 92 -98%; 28d.

Benzyl alcohol: Benzyl alcohol
Biotic/Aerobic - Exposure time 28 d
Result: Result: 92 - 96 % - Readily biodegradable

Benzyl alcohol
Aerobic Biochemical oxygen demand - Exposure time 7 d
Result: Result: 92 - 96 % - Readily biodegradable
(OECD Test Guideline 301C)

Bioaccumulative potential

Benzyl alcohol: No data available.

Mobility in soil

Benzyl alcohol: No data available.

Results of PBT and vPvB assessment

Benzyl alcohol: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

Benzyl alcohol: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

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.

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

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)