


Section 1: Identification

Common Name/Trade Name	BENZYL ALCOHOL NF	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Distributor Name	Bella Corp Trading Pty Ltd 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: bellacorp@bellacorp.com.au	
Product Synonym(s)	Benzene methanol; Phenylcarbinol; alpha-Hydroxytoluene; Phenylmethanol; (Hydroxymethyl)benzene; alpha-Toluenol	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Acute toxicity, Oral (Category 4), Eye irritation (Category 2), Acute toxicity, Inhalation (Category 4)	
Signal Word	Warning	
Hazard Statement(s)	H302 H319 H332	Harmful if swallowed Causes serious eye irritation Harmful if inhaled
Pictogram(s)		
Precautionary Statement(s)	P261 P264 P270 P271 P280 P301+P312+P330 P304+P340 P305+P351+P338 P312 P337+P313 P501	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists Get medical advice/attention. Dispose of contents/container to an approved waste disposal plant.
Hazards Not Otherwise Classified	None known	
Ingredient(s) with Unknown Toxicity	No data Available	

Section 3: Composition/Information on Ingredients

Chemical Name	Benzyl alcohol
Common Name	Benzyl Alcohol
CAS Number	100-51-6
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.
If Inhaled	If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
In Case of Skin Contact	Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. If skin irritation occurs: Get medical advice/attention.
In Case of Eye Contact	Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If eye irritation persists: Get medical advice/attention.
If Swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.
Most Important Symptoms and Effects	Dizziness, Drowsiness, Headache, Irritation, Nausea. Preexisting sensitization, skin and/or respiratory disorders or diseases may be aggravated. See section 11 for additional information. Indication of any immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Suitable: NFPA Class IIIB (Combustible liquid): Use water spray, ABC dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. Unsuitable: None known.
Special Hazards Arising From the Substance/Mixture	Unusual fire/explosion hazards: Product is not considered a fire hazard, but will burn if ignited. Product can form a flammable vapor/air mixture at temperatures at or above the flash point. Closed container may rupture (due to build up in pressure) when exposed to extreme heat. Hazardous combustion products: Irritating or toxic substances will be emitted upon burning, combustion or decomposition. See section 10 (Hazardous decomposition products) for additional information.
Special PPE and/or Precautions for Firefighters	Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal Protective Equipment must be worn.
Methods and Materials Used for Containment	Do not flush liquid into public sewer, water systems or surface waters.
Cleanup Procedures	Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

Section 7: Handling and Storage

Precautions for Safe Handling	As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Do not breathe dust, vapor, aerosol, mist or gas. Do not ingest, taste, or swallow. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area.
Conditions for Safe Storage	Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning. Shelf life: 24 months. Avoid storage in aluminum or iron containers. Empty container contains residual product which may exhibit hazards of product. Product can easily oxidize. It is recommended that opened containers be padded with nitrogen. Protect from light.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Chemical Name ACGIH - TWA/Ceiling ACGIH - STEL Benzyl alcohol N/E N/E Chemical Name OSHA - PEL OSHA - STEL OSHA - Ceiling AIHA - WEEL Benzyl alcohol N/E N/E N/E 10 ppm TWA
Appropriate Engineering Controls	Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. (Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation: American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH, 45240- 1634, USA.) (http://www.acgih.org/home.htm). Eyewash fountains and safety showers are recommended in the work area.
PPE - Eye/Face Protection	Safety glasses or goggles required. Eyewash fountains and safety showers are recommended in the work area.
PPE - Skin Protection	Wear protective gloves. Use good laboratory/workplace procedures including personal protective clothing: lab coat, safety glasses and protective gloves.
PPE - Body Protection	Wear protective gloves. Use good laboratory/workplace procedures including personal protective clothing: lab coat, safety glasses and protective gloves.
PPE - Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment. Wear an approved respirator (e.g., an organic vapor respirator, a full-face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS. Gas mask with filter Type A. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

Section 9: Physical and Chemical Properties

Appearance	Appearance: Colorless Form: Liquid
Upper/Lower Flammability or Explosive Limits	LFL/LEL 1.3%. UFL/UEL 13%
Odor	Slight Aromatic
Vapor Pressure	<1 mm Hg @ 20°C
Odor Threshold	Not Available
Vapor Density	3.7 (Air = 1)
pH	Not available
Relative Density	1.045 @ 20°C
Melting Point/Freezing Point	-15.4 – -15.3°C (4.3 – 4.5 F)
Solubility	Solubility in water: 40 g/L @ 25°C
Initial Boiling Point and Boiling Range	Boiling point C: 205°C @ 1013 hPa Boiling point F: 401°F @ 1013 hPa
Flash Point	99 – 100°C (210 – 213°F) Closed Cup
Evaporation Rate	< 0.01
Flammability (Solid, Gas)	Not Applicable (liquid)
Partition Coefficient	Partition coefficient (noctanol/ water): 1.05 @ 20°C
Auto-Ignition Temperature	436°C (817°F)
Decomposition Temperature	Not Available
Viscosity	5.8 – 8 cP @ 20°C

Section 10: Stability and Reactivity

Reactivity	Can react violently in contact with strong oxidizing agents, isocyanates, acetaldehyde, lithium aluminum hydride, aluminum alkyl compounds, strong mineral acids (i.e. sulfuric acid), and hydrogen bromide.
Chemical Stability	This product is stable. In the presence of air, benzyl alcohol will very slowly oxidize to benzaldehyde.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur
Conditions to Avoid	Avoid exposure to air, moisture, ignition sources and elevated temperatures.
Incompatible Materials	Avoid strong acids and oxidizing agents. Avoid contact with iron and aluminum. Will attack some form of plastics.
Hazardous Decomposition Products	Carbon dioxide and carbon monoxide. Benzaldehyde.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	1620 mg/kg Rat/ adult male. Harmful if swallowed. Ingestion may cause nausea, vomiting and diarrhea.
Acute Toxicity - Inhalation	>4178 mg/m ³ (4 hours, aerosol) Rat/ adult. Harmful if inhaled. Inhalation at high vapor concentrations may cause respiratory tract irritation and central nervous effects.
Acute Toxicity - Dermal	Non-irritant (OECD 404) Rabbit/ adult. May be harmful in contact with skin. Repeated or prolonged contact may cause irritation, dermatitis, defatting and drying or cracking of the skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Acute Toxicity - Eye	Irritant (OECD 405) Rabbit/ adult. Causes serious eye irritation.
Skin Corrosion/Irritation	Not classified (based on available data, the classification criteria are not met). Non-irritant (OECD 404) Rabbit/ adult
Serious Eye Damage/Irritation	Causes serious eye irritation (Category 2A). Irritant (OECD 405) Rabbit/ adult
Respiratory or Skin Sensitization	Not classified (based on available data, the classification criteria are not met). BENZYL ALCOHOL: This material has a low potential to cause allergic skin reactions, however cases of skin sensitization have been reported.
Germ Cell Mutagenicity	No information available.
Carcinogenicity IARC	Not listed or regulated by IARC (Group 1 or 2), NTP, OSHA, or ACGIH.
Carcinogenicity ACGIH	Not listed or regulated by IARC (Group 1 or 2), NTP, OSHA, or ACGIH.
Carcinogenicity NTP	Not classified (based on available data, the classification criteria are not met). BENZYL ALCOHOL: Under conditions of a two-year NTP gavage study, there was no evidence of carcinogenic activity for rats or mice receiving 200 or 400 mg/kg bw/day. Not listed or regulated by IARC (Group 1 or 2), NTP, OSHA, or ACGIH.
Carcinogenicity OSHA	Not listed or regulated by IARC (Group 1 or 2), NTP, OSHA, or ACGIH.
Reproductive Toxicity	Not classified (based on available data, the classification criteria are not met). BENZYL ALCOHOL - READACROSS: Reproductive toxicity (benzoic acid), 4-generation oral study in rats: NOAEL (no-observed adverse-effect-level) of 500 mg/kg/day. Developmental toxicity (sodium benzoate), oral, rats and mice: NOAEL of >=175 mg/kg bw/day can be established for developmental effects. Benzyl alcohol - no effects on reproductive organs were observed in subchronic and long-term studies with rats and mice.
Specific Target Organ Toxicity - Single Exposure	Not classified (based on available data, the classification criteria are not met).
Specific Target Organ Toxicity - Repeated Exposure	Not classified (based on available data, the classification criteria are not met). BENZYL ALCOHOL: Long term animal studies indicate a gavage NOAEL (no-observed-adverse-effect-level) >=400 mg/kg/day for rats and >=200 mg/kg/day for mice. At higher doses, effects on bodyweights, brain lesions, thymus, skeletal muscle, kidneys, liver and central nervous system were observed. In a 4-week inhalation study in rats on Benzyl Alcohol, no adverse effects were observed with a no-observed-adverse-effect level (NOAEC) of 1072 mg/m ³ .
Aspiration Hazard	Not classified (based on available data, the classification criteria are not met).

Section 12: Ecological Information

Toxicity	Benzyl alcohol Fish LC50 460 mg/L (96 hours) LC50 >100 mg/L (96 hours) N/E Benzyl alcohol Invertebrates EC50 230 mg/L (48 hours) EC50 400 mg/L (24 hours) NOEC 51 mg/L (21 days) Benzyl alcohol Algae EC50 770 mg/L (72 hours) N/E NOEC 310 mg/L (72 hours)
Persistence and Degradability	Benzyl alcohol Readily biodegradable (OECD 301C & 301A)
Bio-accumulative Potential	1.37 L/kg (calculated) 1.05 @ 20°C
Mobility in Soil	Mobility in soil (Koc/Kow) Benzyl alcohol 15.7 (calculated)
Other Adverse Effects	No additional information available

Section 13: Disposal Considerations

Waste Treatment Methods Product	For waste disposal purposes, this product is not known to be defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261). Incinerate waste product when in liquid form (i.e., as supplied) in a properly permitted (approved) incineration facility in accordance with federal, state and local regulations. Liquids cannot be disposed of in a landfill.
Waste Treatment Methods Packaging	No data available
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	No data available

Section 15: Regulatory Information

U.S. federal and state regulations/legislation: This SDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200. U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ): Not Applicable U.S. Superfund Amendments and Reauthorization Act (SARA) - SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372: None known U.S. TSCA Section 12(b) Export Notification: This product is not subject to TSCA 12(b) reporting requirements. California Proposition 65: The following ingredient(s) present in the product is [are] known to the State of California to cause cancer: None known to be present or none in reportable amounts f or occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997. The following ingredient(s) present in the product is [are] known to the State of California to cause birth defects or other reproductive harm: None known to be present or none in reportable amounts f or occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997. Notes: No additional information Canada regulations/legislation: This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations. Notes: No additional information Chemical inventories: Regulation Status Australian Inventory of Chemical Substances (AICS): Y Canadian Domestic Substances List (DSL): Y Canadian Non-Domestic Substances List (NDSL): N China Inventory of Existing Chemical Substances (IECSC): Y European EC Inventory (EINECS, ELINCS, NLP): Y Japan Existing and New Chemical Substances (ENCs): Y Japan Industrial Safety and Health Law (ISHL): Y Korean Existing and Evaluated Chemical Substances (KECL): Y New Zealand Inventory of Chemicals (NZIoC): Y Philippines Inventory of Chemicals and Chemical Substances (PICCS): Y Taiwan Inventory of Existing Chemicals: Y U.S. Toxic Substances Control Act (TSCA): Y Europe REACH (EC) 1907/2006: Applicable components are registered, exempt or otherwise compliant. REACH is only relevant to substances either manufactured or imported into the EU. Emerald Performance Materials has met its obligations under the REACH regulation. REACH information regarding this product is provided f or informational purposes only. Each Legal Entity may have differing REACH obligations, depending on their place in the supply chain. For material manufactured outside of the EU, the importer of record must understand and meet their specific obligations under the regulation.

Section 16: Other Information

Additional Information	HMIS (Hazardous Materials Identification System) Ratings: Health: 2 Flammability: 1 Physical hazard: 0 Personal Protection: X NFPA (National Fire Protection Association) Ratings: Health: 2 Flammability: 1 Instability: 0 Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme. An asterisk appearing after the HMIS Health numerical rating denotes a chronic hazard.
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