

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Benzyl Alcohol

CAS number: 100-51-6

Synonyms: Benzene methanol; Phenylcarbinol; alpha-Hydroxytoluene; Phenylmethanol; (Hydroxymethyl)benzene; alpha-Toluene.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses : Intermediate, Odor agent, Laboratory chemical, Photosensitive agent and other photochemical, Solvent, Viscosity adjuster, Flow improver

1.3 Details of the supplier of the safety data sheet

Company : Lab Alley, LLC
22111 Highway 71 West, Suite 601
Spicewood, Texas 78669
U.S.A.

Telephone : 512-668-9918
Fax : 512-886-4008

1.4 Emergency telephone

Emergency Phone # : US & Canada: 1-800-535-5053 INFOTRAC
International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4)
Eye irritation (Category 2)
Acute toxicity, Inhalation (Category 4)

2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal Word:

Warning

Hazard statement(s):

Harmful if swallowed. Causes serious eye irritation. Harmful if inhaled.

Precautionary statement(s):

Prevention - Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in well-ventilated area. Wear eye protection/face protection. **Response** - IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep 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 CENTRE/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention. Dispose of contents/container in accordance with local, regional and international regulations.

Hazards not otherwise classified

No additional information.

SECTION 3: Composition/information on ingredients

3.1 Components

Ingredient	CAS Number	Percent	Hazardous Chemical
Benzyl alcohol	100-51-6	99-100	No

SECTION 4: First aid measures

4.1 Description of 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.

In case of inhalation:

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 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.

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 ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Dizziness, Drowsiness, Headache, Irritation, Nausea. Preexisting sensitization, skin and/or respiratory disorders or diseases may be aggravated. See section 11 for additional information.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable (and unsuitable) extinguishing media

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.

5.2 Specific hazards arising from the substance or mixture

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. Irritating or toxic substances will be emitted upon burning, combustion or decomposition. See section 10 (Hazardous decomposition products) for additional information.

5.3 Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus (SCBA) equipped with a full face piece 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.

5.4 Further information

See section 9 for additional information.

SECTION 6: Accidental release measures

6.1 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.

6.2 Environmental precautions

Do not flush liquid into public sewer, water systems or surface waters.

6.3 Methods and materials for containment and cleaning up

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 laundry before reuse.

6.4 Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1 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.

Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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

8.1 Occupational exposure limits

Ingredient	CAS Number	Exposure Limits
Benzyl alcohol	100-51-6	10 ppm TWA (AIHA-WEEL)

8.2 Exposure controls

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>).

Personal protective equipment

Eye/face protection

Safety glasses or goggles required.

Skin and body protection

Wear protective gloves. Use good laboratory/workplace procedures including personal protective clothing: lab coat, safety glasses and protective gloves.

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).

Control of environmental exposure

Do not flush liquid into public sewer, water systems or surface waters.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid.
Appearance	Colorless.
Odor	Slight aromatic.
Odor Thresh	Not available.
pH	Not available.
Melting Point/Range	-15.4- -15.3 °C (4.3-4.5 °F)
Boiling Point/Range	205 °C @ 1013 hPa (401 °F @ 1013 hPa)
Flash Point	99-100 °C (210-213 °F) Closed Cup
Evaporation Rate	<0.01
Flammability (solid, gas)	Not applicable.
Flammability or explosive limit	Upper : 13% Lower : 1.3%
Vapor Pressure	<1 mm Hg @ 20 °C
Vapor Density	3.7 (Air=1)
Density	1.045 @ 20°C
Solubility	40 g/L @ 25°C (in water)
Partition coefficient; n-octanol/water	1.05 @ 20°C
Autoignition Temp	436 °C (817 °F)
Decomposition Temp	Not available.
Viscosity	5.8-8 cP @ 20°C
Molecular Formula	C7H8O
Molecular Weight	108.14
VOC Content(%)	100%
Oxidizing properties	Not oxidizing.

9.2 Other safety information

Amounts specified are typical and do not represent a specification.

SECTION 10: Stability and reactivity

10.1 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.

10.2 Chemical stability

This product is stable. In the presence of air, benzyl alcohol will very slowly oxidize to benzaldehyde.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Avoid exposure to air, moisture, ignition sources and elevated temperatures.

10.5 Incompatible materials

Avoid strong acids and oxidizing agents. Avoid contact with iron and aluminum. Will attack some form of plastics.

10.6 Hazardous decomposition products

Carbon dioxide and carbon monoxide. Benzaldehyde.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzyl alcohol	1620 mg/kg (Rabbit)	NA	>4178 mg/m ³ - 4hr,aerosol (Rat)

Skin corrosion/irritation

Not classified.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Not classified.

Germ cell mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

Not classified.

Chronic effects

No information available.

11.2 Additional information

None.

SECTION 12. Ecological information

12.1 Toxicity

Ecotoxicity:

Toxicity to Micro-organisms, inhibition of microbial activity, 24 hours, EC50 = 390 mg/L.

Component	Fish	Invertebrates	Algae
Benzyl alcohol	LC50 460 mg/L (96hrs) Acute LC50 >100 mg/L (96hrs) Acute	EC50 230 mg/L (48hrs) Acute EC50 400mg/L (24hrs) Acute NOEC 51 mg/L (21days) Chronic	EC50 770 mg/L (72hrs) Acute NOEC310 mg/L (72hrs) Chronic

12.2 Persistence and Degradability

Expected to be readily biodegradable.

12.3 Bioaccumulative Potential

Bioconcentration Factor (BCF) - 1.37 L/kg (calculated). Log Kow - 1.05 @ 20°C.

12.4 Mobility in Soil

15.7 (calculated)

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No additional information available.

SECTION 13. Disposal considerations

13.1 Waste Disposal Methods

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. See Section 8 for recommendations on the use of personal protective equipment.

SECTION 14: Transport information

DOT

UN-No	Not Regulated
Proper Shipping Name	
Hazard Class	
Subsidiary Hazard Class	
Packing Group	

IATA

UN-No	Not Regulated.
Proper Shipping Name	
Hazard Class	
Subsidiary Hazard Class	
Packing Group	

IMDG/IMO

UN-No	Not Regulated.
Proper Shipping Name	
Hazard Class	
Subsidiary Hazard Class	
Packing Group	

ADR

UN-No	Not Regulated.
Proper Shipping Name	
Hazard Class	
Subsidiary Hazard Class	
Packing Group	

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 for 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 for 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:

<u>Regulation</u>	<u>Status</u>
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): European	Y
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. Lab Alley LLC has met its obligations under the REACH regulation. REACH information regarding this product is provided for 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

Issue Date	12/14/2018
Revision Date	10/11/2023

Disclaimer:

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.