

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	Phenylcarbinol; Phenylmethyl alcohol; Alpha-hydroxytoluene; Benzenemethanol; Hydroxytoluol

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

Identified uses	Laboratory Chemicals
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1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 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 Oral Toxicity (Category 4)
Eye Irritation (Category 2A)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statements

Harmful if swallowed.
Causes serious eye irritation.

Precautionary statements

Prevention: Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear eye protection/ face protection.
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Disposal: Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Benzyl alcohol	Phenylcarbinol; Hydroxytoluol	100-51-6	99.8-100%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled

Remove to fresh air. Get medical attention if symptoms occur.

In case of skin contact

Wash off with soap and water. Get medical attention if symptoms occur.

In case of eye contact

Immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 20 minutes. Get medical attention if symptoms occur.

If swallowed Rinse mouth with water. Do not induce vomiting unless directed to do by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Never give anything by mouth to an unconscious person. Maintain open airway.

4.2 Most important symptoms and effects, both acute and delayed

Eye: Causes irritation with symptoms of reddening, tearing, stinging, and swelling.
Acute overexposure to this product may cause dizziness, headache, drowsiness, malaise, abdominal pain.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical, or Carbon dioxide.

Unsuitable extinguishing media No information available.

5.2 Specific hazards arising from the substance or mixture

Vapors may form explosive mixtures with air. Vapors may spread long distances and ignite. Do not allow run-off from fire-fighting to enter drains or water courses.
Hazardous Combustion Products: Carbon oxides.

5.3 Special protective equipment and precautions for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

5.4 Further information

Flash Point 99-100 °C (210-213 °F) Closed Cup

Autoignition Temperature 436 °C (817 °F)

Explosion limits

Upper 13%

Lower 1.30%

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment. Do not touch or walk through spilled material. Evacuate unnecessary and unprotected personnel. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Do not breathe vapors, aerosols. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers, lakes, or drains, inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Stop leak if safe to do so. Move containers from spill area. Wash spillages into an effluent treatment plant or proceed as follows. Contain spillage, soak up with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations. Dispose of wastes in an approved waste disposal facility. Do not allow into the sewerage system, surface waters, groundwater, or into the soil. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid inhalation, ingestion, and contact with skin and eyes. Use only with adequate ventilation. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking, and smoking. Put on appropriate personal protection equipment. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities**Storage conditions**

Store contents under nitrogen. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials, food, and drink. Keep containers sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate container to avoid environmental contamination. Empty containers retain residue and can be dangerous. Do not reuse container. Solvent vapors are heavier than air and may spread along floors.

Incompatibilities

Strong acids and oxidizing agents. Iron. Aluminum.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Ensure that eyewash stations and safety showers are close to the workstation location

Personal protective equipment

Eye/face protection

Chemical resistant goggles must be worn. Faceshield may be necessary in operations with splash potential but cannot be used in place of chemical safety goggles

Skin protection

Butyl rubber and fluorinated rubber gloves recommended for hand protection.

Body Protection

Wear suitable protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator. NIOSH approved, air-purifying organic vapor respirator.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Slightly aromatic
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-15.4- -15.3 °C (4.3-4.5 °F)
Boiling Point/Range	205 °C / 401 °F @ 1013 hPa
Evaporation Rate	<0.01
Flammability (solid)	Not applicable
Flammability or explosive limit	
Upper	13%
Lower	1.30%
Vapor Pressure	0.07 hPa (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	No information available
Viscosity	5.8-8 cP @ 20°C, dynamic
Molecular Formula	C7H8O
Molecular Weight	108.14 g/mol
VOC Content(%)	No information available
Oxidizing properties	Not oxidizing

9.2 Other safety information No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Exposure to air and moisture. Heat, flames, and sparks.

10.5 Incompatible materials

Strong acids and oxidizing agents. Iron. Aluminum.

10.6 Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzyl alcohol	1620 mg/kg (Rat)	-	>4.178 mg/L/ 4h (Rat)

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Benzyl alcohol	100-51-6	Not listed	Not listed	Not listed	Not listed	Not listed

Specific target organ toxicity - single exposure

Not classified based on available information.

Specific target organ toxicity - repeated exposure

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Chronic effects

Overexposure to this product may cause dizziness, headache, drowsiness, malaise, abdominal pain.

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results
Benzyl alcohol	LC50	Pimephales promelas	460 mg/L, 96h
	EC50 NOEC	Pseudokirchneriella subcapitata	770 mg/L, 72h 310 mg/L, 72h
	EC50 NOEC	Daphnia magna	230 mg/L, 48h 51 mg/L, 21d
	EC50	Microorganisms	390 mg/L, 24h

12.2 Persistence and degradability

Expected to be readily biodegradable.

12.3 Bio accumulative potential

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

12.4 Mobility in soil

Distribution among environmental compartments, Koc = 15.7.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US) Not regulated.

IMDG Not regulated.

IATA Not regulated.

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not applicable.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous
See Section 2 for more information.

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act
Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Listed, Benzyl alcohol (CAS #100-51-6).

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Benzyl alcohol (CAS #100-51-6).

California Proposition 65

Not listed.

SECTION 16: Other information

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SECTION 17: 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.