



# **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 Intermediate.

# 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

Laballey.com Page 1 of 10

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.

Laballey.com Page 2 of 10

#### 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

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.

Laballey.com Page 3 of 10

# 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

#### Precautions on 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

Laballey.com Page 4 of 10

#### 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 expsoure 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**

Laballey.com Page 5 of 10

# 9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Colorless

Odor Slightly aromatic

Odor Threshold

pH

No information available

No information available

No information available

-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; 1.05 @ 20°C

n-octanol/water

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

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

# 10.5 Incompatible materials

Laballey.com Page 6 of 10

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 |

# 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.

Laballey.com Page 7 of 10

# **SECTION 12: Ecological information**

# 12.1 Toxicity

| Product        |              | Species                         | Test Results                   |
|----------------|--------------|---------------------------------|--------------------------------|
| Benzyl alcohol | LC50         | Pimephales promelas             | 460 mg/L, 96h                  |
|                | EC50<br>NOEC | Pseudokirchneriella subcapitata | 770 mg/L, 72h<br>310 mg/L, 72h |
|                | EC50<br>NOEC | Daphnia magna                   | 230 mg/L, 48h<br>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 disposal.

# **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.

Laballey.com Page 8 of 10

# **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.

Laballey.com Page 9 of 10

# 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**

Issue date: 12/14/2018 Revision 1: 10/11/2023 Revision 2: 12/03/2024

# **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.

Laballey.com Page 10 of 10