

## SAFETY DATA SHEET

Preparation Date: 01/16/2015

Revision Date: 8/3/2018

Revision Number: G2

### 1. IDENTIFICATION

**Product identifier**

**Product code:** B1092  
**Product Name:** BENZYL ALCOHOL, TECHNICAL

**Other means of identification**

**Synonyms:** alpha-Hydroxytoluene; alpha-Toluenol; Benzal alcohol; Benzenecarbinol; Benzenemethanol; Benzoyl alcohol; Hydroxytoluene; Methanol, phenyl-; Phenolcarbinol; Phenylcarbinol; Phenylmethanol; Phenylmethyl alcohol

**CAS #:** 100-51-6  
**RTECS #** DN3150000  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Perfumes and flavors; photographic developer for color movie films; dyeing nylon filament, textiles, and sheet plastics; solvent for dyestuffs, cellulose esters, casein, waxes, etc.; heat-sealing polyethylene films; intermediate for benzyl esters and ethers; bacteriostat; cosmetics, ointments, emulsions; ball point pen inks; stencil inks.

**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

**Label elements**

**Warning****Hazard statements**

Harmful if swallowed  
Harmful in contact with skin  
Harmful if inhaled  
Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Harmful to aquatic life with long lasting effects  
Harmful to aquatic life

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves  
Wear eye/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Contaminated work clothing must not be allowed out of the workplace

**Precautionary Statements - Response**

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.  
IF ON SKIN: Wash with plenty of water  
Call a POISON CENTER or doctor/physician if you feel unwell  
Take off contaminated clothing and wash it before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %
Benzyl Alcohol	100-51-6	100

**4. FIRST AID MEASURES****First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Causes eye irritation  
Eye contact may result in redness or pain  
May cause an allergic skin reaction  
Contact causes skin irritation  
Central nervous system effects  
May cause irritation of respiratory tract  
Coughing  
Dyspnea (Shortness of breath and difficulty breathing)  
May cause abdominal pain, nausea, vomiting, diarrhea  
May affect the cardiovascular system

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry powder. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide.

**Specific hazards:** May be combustible at high temperatures. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated.

**Special Protective Actions for Firefighters**

**Specific Methods:** Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter the material.

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment**

Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up**

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Keep away from heat and sources of ignition. Sensitive to light. Store in light-resistant containers. Store under inert gas.

**Incompatible Materials:**

Acids  
Oxidizing agents  
Aluminum  
Iron  
Steel

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**National occupational exposure limits**

## United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Benzyl Alcohol	100-51-6	None	None	None	10 ppm TWA

## Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Benzyl Alcohol	100-51-6	None	None	None	None

## Australia and Mexico

Components	CAS-No.	Australia	Mexico
Benzyl Alcohol	100-51-6	None	None

## Appropriate engineering controls

### Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

## Individual protection measures, such as personal protective equipment

### Personal Protective Equipment

- Eye protection:** Goggles
- Skin and body protection:** Long sleeved clothing  
Chemical resistant apron  
Gloves
- Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical state:

Liquid

### Appearance:

No information available.

### Color:

Colorless. Clear.

### Odor:

Slight. Aromatic.

### Taste

Sharp. Burning.

### Formula:

C7H8O

### Molecular/Formula weight (g/mole):

108.14

### Flammability:

No information available

### Flashpoint (°C/°F):

93.0°C/199.4°F  
100.56-104.44°C/213-220°F

### Flash Point Tested according to:

Closed cup

Open cup

### Autoignition Temperature (°C/°F):

436.0°C/816.8°F

### Lower Explosion Limit (%):

No information available

### Upper Explosion Limit (%):

No information available

### Melting point/range(°C/°F):

-15.2°C/4.6°F

### Decomposition temperature(°C/°F):

No information available

### Boiling point/range(°C/°F):

205.3°C/401.5°F

### Bulk density:

No information available

### Density (g/cm3):

No information available

Product code: B1092

Product name: BENZYL ALCOHOL,  
TECHNICAL

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**Specific gravity:**  
1.0419 at 20°C

**pH:**  
No information available

**Vapor pressure @ 20°C (kPa):**  
0.003 kPa

**Evaporation rate:**  
No information available

**Vapor density:**  
3.72

**VOC content (g/L):**  
No information available

**Odor threshold (ppm):**  
5.5 ppm

**Partition coefficient  
(n-octanol/water):**  
1.1

**Viscosity:**  
No information available

**Miscibility:**  
No information available

**Solubility:**  
Soluble in Water  
Solubility in Water: 35,000 mg/L at 20 deg. C; 42,900 mg/L at 25 deg. C  
Soluble in Acetone  
Soluble in Benzene  
Soluble in Ethanol  
Soluble in Ether  
Soluble in Chloroform

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with acids

Reactive with oxidizing agents

Attacks some plastics, rubber, and coatings.

Benzyl alcohol can extract and dissolve polystyrene plastic and may attack other plastics

A mixture of benzyl alcohol with 58% sulfuric acid decomposes explosively at about 180 deg. C.

Benzyl alcohol contaminated with 1.4% hydrogen bromide and 1.2% of dissolved iron (II) polymerizes exothermally above 100°C

### Chemical stability

**Stability:** Stable under recommended storage conditions. Sensitive to light. Exposure to light accelerates decomposition. Slowly decomposes on contact with air.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Exposure to light. Exposure to air. Incompatible materials.

**Incompatible Materials:** Acids  
Oxidizing agents  
Aluminum  
Iron  
Steel

**Hazardous decomposition products:** Carbon oxides. When heated to decomposition it emits acrid smoke and irritating fumes.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Eyes. Ingestion. Inhalation. Skin.

## Acute Toxicity

### Component Information

Benzyl Alcohol	
CAS-No.	100-51-6

**LD50/oral/rat** = 1230 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 1360 mg/kg (RTECS)  
1150-1580mg/kg (EU Commision IUCLID dataset)  
**LD50/dermal/rabbit** = 2 g/kg Dermal LD50Rabbit  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 8.8 mg/L Inhalation LC50 Rat 4 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = 1040 mg/kg Oral LD50 Rabbit

### Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = 1230 mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = 1360 mg/kg

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = 2000 mg/kg

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = 8.8 mg/l (4-hr)  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**  
**VALUE-Vapor** = No information available  
**VALUE - Gas** = No information available  
**VALUE - Dust/Mist** = No information available

### Symptoms

**Skin Contact:** Harmful in contact with skin. It may be absorbed through the skin. Causes skin irritation. Mildly to highly irritating. Can cause redness and pain.

**Eye Contact:** Causes serious eye irritation. Moderately irritating to the eyes. Causes redness, pain. Eye contact produces immediate smarting, but there is no permanent injury if exposure is brief.

**Inhalation** Harmful by inhalation. Inhalation of mist or vapors may cause respiratory tract (nose, throat), irritation. Symptoms may include coughing, shortness of breath. It may be absorbed into the blood stream with symptoms similar to ingestion.

**Ingestion** Harmful if swallowed. Ingestion of large doses may cause abdominal pain, nausea, vomiting, diarrhea. It may affect behavior/central nervous system and cause headache, somnolence, excitement, dizziness, ataxia, coma, convulsions,

and other symptoms of central nervous system depression. It may also affect respiration (paralysis of the respiratory center, respiratory depression, gasping respirations), cardiovascular system (hypotension).

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Prolonged or repeated exposure (skin contact) may cause allergic contact dermatitis. Prolonged or repeated ingestion may affect behavior/central nervous system with symptoms similar to acute ingestion. It may also affect the liver, kidneys, cardiovascular system.

**Sensitization:** May cause sensitization by skin contact.

**Mutagenic Effects:** May affect genetic material  
Mutations in microorganisms

**Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Benzyl Alcohol	100-51-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** May cause adverse developmental effects based on animal data  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Benzyl Alcohol - 100-51-6*

**Freshwater Algae Data:** 35 mg/L EC50 Anabaena variabilis 3 h

**Freshwater Fish Species Data:** 460 mg/L LC50 Pimephales promelas 96 h static 1 10 mg/L LC50 Lepomis macrochirus 96 h static 1

**Water Flea Data:** 23 mg/L EC50 water flea 48 h

**Persistence and degradability:** No information available



**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Benzyl Alcohol	100-51-6	None	None	None	None

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Class:** No information available  
**Packing group:** No information available  
**Emergency Response Guide Number:** No information available  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** No Information available  
**Symbol(s):** No information available  
**Description:** No information available

#### TDG (Canada)

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant:** No Information available  
**Description:** No information available

#### ADR

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available

#### IMO / IMDG

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

Marine Pollutant No information available

**RID**

UN-No: Not Regulated  
Proper Shipping Name: No information available  
Hazard Class: No information available  
Subsidiary Risk: No information available  
Packing Group: No information available

**ICAO**

UN-No: Not Regulated  
Proper Shipping Name: No information available  
Hazard Class: No information available  
Subsidiary Risk: No information available  
Packing Group: No information available

**IATA**

UN-No: Not Regulated  
Proper Shipping Name: No information available  
Hazard Class: No information available  
Subsidiary Risk: No information available  
Packing Group: No information available  
ERG Code: No information available  
Special Provisions No information available

**15. REGULATORY INFORMATION**

**International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Benzyl Alcohol</i>	100-51-6	PresentACTIVE	Present KE-02570	Present	Present (3)-1011	Present [03082]	Present	Present 202-859-9

**U.S. Regulations**

*Benzyl Alcohol*

Massachusetts RTK: Present

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

FDA - Direct Food Additives 21 CFR 172.515

FDA - 21 CFR - Total Food Additives 172.515, 175.105, 175.300, 177.1210, 73.1001

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Benzyl Alcohol</i>	100-51-6	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Components	CAS-No.	CERCLA - Hazardous Substances and	Section 302 Extremely Hazardous	Section 302 Extremely Hazardous	Section 313 - Chemical Category	Section 313 - Reporting de minimis

Product code: B1092

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		their Reportable Quantities	Substances and TPQs	Substances and RQs		
Benzyl Alcohol	100-51-6	None	None	None	None	None

## U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Benzyl Alcohol	100-51-6	Not Applicable	Not Applicable

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component  
Benzyl Alcohol  
100-51-6 ( 100 )

WHMIS 2015 Hazard Classification  
Flammable liquids - Category 4: H227 Combustible liquid.; Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

### WHMIS 1988 Hazard Class

B3 Combustible liquid  
D2B Toxic materials

**Components**  
Benzyl Alcohol

WHMIS 1988  
B3,D2B

### Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Benzyl Alcohol	1 %

## Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Benzyl Alcohol	100-51-6	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Benzyl Alcohol	100-51-6	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Benzyl Alcohol	100-51-6	Not listed

## EU Classification

### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Benzyl Alcohol	100-51-6	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 4: H332 Harmful if inhaled. (Minimum classification)603-057-00-5

EU - CLP (1272/2008)

**R-phrase(s)**

R20/22 - Harmful by inhalation and if swallowed.

**S -phrase(s)**

S 2 - Keep out of the reach of children.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Benzyl Alcohol	100-51-6	Xn; R20/22	No information	S: (2)-26

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

Xn - Harmful.

Xn



**16. OTHER INFORMATION**

**Preparation Date:** 01/16/2015  
**Revision Date:** 8/3/2018  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**