



# BENZYL ALCOHOL (RING-13C6, 99%)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/02/2011

Revision date: 03/01/2017

Supersedes: 23/01/2012

Version: 3.0

**CLM-2298**

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

#### 1.1. Product identifier

Product form	: Substance
Substance name	: BENZYL ALCOHOL (RING-13C6, 99%)
EC index no	: 603-057-00-5 (Unlabeled)
EC no	: 202-859-9 (Unlabeled)
CAS No	: 201740-95-6
REACH registration No	: 01-211949263-38
Product code	: CLM-2298
Formula	: *C6H5CH2OH
Synonyms	: Benzenemethanol

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

##### 1.2.1. Relevant identified uses

Main use category	: Professional use
Industrial/Professional use spec	: For professional use only

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

#### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)  
International: 1-703-741-5970 (24 hours)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Inhalation:dust,mist)	H332
Eye Irrit. 2	H319

Full text of H-statements: see section 16

##### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R20/22  
Xi; R36

Full text of R-phrases: see section 16

##### GHS-US classification

Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Inhalation)	H332
Eye Irrit. 2A	H319
Aquatic Acute 2	H401

##### Adverse physicochemical, human health and environmental effects

Central Nervous System.

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H302+H332 - Harmful if swallowed or if inhaled  
H319 - Causes serious eye irritation

Precautionary statements (CLP) :

P261 - Avoid breathing mist, spray  
P264 - Wash both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H302+H332 - Harmful if swallowed or if inhaled  
H319 - Causes serious eye irritation  
H401 - Toxic to aquatic life

Precautionary statements (GHS-US) :

P261 - Avoid breathing mist, spray  
P264 - Wash Both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective clothing, protective gloves  
P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell  
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
P330 - If swallowed, rinse mouth  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P501 - Dispose of contents/container to Comply with applicable regulations

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name	Product identifier	%	Classification according to Directive 67/548/EEC
BENZYL ALCOHOL (RING-13C6, 99%) (Main constituent)	(CAS No) 201740-95-6 (EC no) 202-859-9 (Unlabeled) (EC index no) 603-057-00-5 (Unlabeled) (REACH-no) 01-211949263-38	100	Xn; R20/22 Xi; R36

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BENZYL ALCOHOL (RING-13C6, 99%) (Main constituent)	(CAS No) 201740-95-6 (EC no) 202-859-9 (Unlabeled) (EC index no) 603-057-00-5 (Unlabeled) (REACH-no) 01-211949263-38	100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319

Full text of R- and H-statements: see section 16

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Name	Product identifier	%	GHS-US classification
BENZYL ALCOHOL (RING-13C6, 99%) (Main constituent)	(CAS No) 201740-95-6	100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 Aquatic Acute 2, H401

Full text of H-statements: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Move out of dangerous area. Consult a physician and show this safety data sheet.
First-aid measures after inhalation	: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: Wash with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Harmful if inhaled.
Symptoms/injuries after skin contact	: May be harmful if absorbed through the skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

### 5.2. Special hazards arising from the substance or mixture

Reactivity : Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.

### 5.3. Advice for firefighters

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe area.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3. Methods and material for containment and cleaning up

For containment : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.  
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep container tightly closed in a dry and well-ventilated place.  
Storage conditions : Store at room temperature away from light and moisture.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### BENZYL ALCOHOL (RING-13C6, 99%) (201740-95-6)

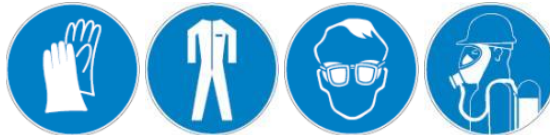
USA OSHA

Remark (OSHA)

Component: Benzyl alcohol CAS No.: 100-51-6  
Value: TWA Control Parameters: 10 ppm Basis:  
USA. Workplace Environmental Exposure Levels  
(WEEL)

### 8.2. Exposure controls

- Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.  
Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



- Materials for protective clothing : Wear suitable protective clothing and gloves.  
Hand protection : Wear suitable protective clothing and gloves.  
Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.  
Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.  
Environmental exposure controls : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid  
Appearance : Liquid, clear.  
Molecular mass : 114.09 g/mol (Labeled)  
Colour : Colourless.  
Odour : No data available  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : -16 - -13 °C (3 - 9 °F)  
Freezing point : No data available  
Boiling point : 203 - 205 °C (397 - 401 °F)  
Flash point : 96 °C (205 °F) - closed cup  
Auto-ignition temperature : 436 °C (817 °F)  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : 5.00 hPa (3.75 mmHg) at 77 °C (171 °F); 17.7 hPa (13.3 mmHg) at 100 °C (212 °F); 0.125 hPa (0.094 mmHg) at 25 °C (77 °F)  
Relative vapour density at 20 °C : 3.73 - (Air = 1.0)  
Relative density : No data available  
Density : 1.045 g/ml at 25 °C (77 °F)  
Solubility : Water: 33 g/l at 20 °C (68 °F)  
Log Pow : 1.1 Log Pow: 1.05 at 20 °C (68 °F)  
Log Kow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available

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Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.

### 10.2. Chemical stability

Stable if stored under recommended conditions.

### 10.3. Possibility of hazardous reactions

Hygroscopic.

### 10.4. Conditions to avoid

A mixture of benzyl alcohol and 58% sulfuric acid decomposed violently when heated to 180°C. Benzyl alcohol.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful if inhaled.

BENZYL ALCOHOL (RING-13C6, 99%) (201740-95-6)	
LD50 oral rat	1230 mg/kg Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Excitement. Behavioral: coma.
LD50 oral	1620 mg/kg Rat - male
ATE CLP (oral)	1230.000 mg/kg bodyweight
ATE CLP (dermal)	2000.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation : Skin - Rabbit Result: Sever skin irritation - 24 h. (OECD Test Guideline 404)

Serious eye damage/irritation : Eyes - Rabbit Result: Eye irritation - 24 h. (OECD Test Guideline 405)

Respiratory or skin sensitisation : Not available  
No data available

Germ cell mutagenicity : Not available

Carcinogenicity : Not classified

Reproductive toxicity : Not available

Specific target organ toxicity (single exposure) : Not classified  
No data available

Specific target organ toxicity (repeated exposure) : Not classified  
No data available

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Central nervous system depression. Liver - Irregularities - Based on Human Evidence.

Symptoms/injuries after inhalation : Harmful if inhaled.

Symptoms/injuries after skin contact : May be harmful if absorbed through the skin. Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

BENZYL ALCOHOL (RING-13C6, 99%) (201740-95-6)	
LC50 fish 1	10 g/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	55 mg/l Daphnia magna (Water flea) - 24 h
LC50 fish 2	460 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 2	230 mg/l Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)

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### 12.2. Persistence and degradability

#### BENZYL ALCOHOL (RING-13C6, 99%) (201740-95-6)

Persistence and degradability	Biotic/Aerobic. - Exposure time 28 d.
Biochemical oxygen demand (BOD)	aerobic Biochemical oxygen demand - Exposure time 7 d Result: 92 - 96 % - Readily biodegradable (OECD Test Guideline 301C)
Chemical oxygen demand (COD)	aerobic Biochemical oxygen demand - Exposure time 7 d
Biodegradation	92 - 96 % - Readily biodegradable (OECD Test Guideline 301C)

### 12.3. Bioaccumulative potential

#### BENZYL ALCOHOL (RING-13C6, 99%) (201740-95-6)

Log Pow	1.1 Log Pow: 1.05 at 20 °C (68 °F)
Bioaccumulative potential	Not available.

### 12.4. Mobility in soil

#### BENZYL ALCOHOL (RING-13C6, 99%) (201740-95-6)

Ecology - soil	Not available.
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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of an unprofessional handling or disposal. Toxic to aquatic life.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Dispose of as unused product.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No.(DOT) : 3334  
DOT NA no. UN3334

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Aviation regulated liquid, n.o.s.  
(Benzyl alcohol)

Transport hazard class(es) (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



DOT Symbols : A - Material is regulated as a hazardous material only when transported by air, G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : A35 - This includes any material which is not covered by any of the other classes but which has an anesthetic, narcotic, noxious or other similar properties such that, in the event of spillage or leakage on an aircraft, extreme annoyance or discomfort could be caused to crew members so as to prevent the correct performance of assigned duties.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155

DOT Packaging Non Bulk (49 CFR 173.xxx) : 204

Marine pollutant : No

### 14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : IMDG: Not dangerous goods.

### Overland transport

Class (ADR) : 9 - Miscellaneous dangerous substances and articles

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Classification code (ADR) : M11  
EAC code : 2Z

### Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  
MFAG-No : 171

### Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No limit  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No limit  
Civil Aeronautics Law : Miscellaneous dangerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

### 14.4. Environmental hazards

Other information : No supplementary information available.

### 14.5. Special precautions for user

Special transport precautions : IMDG: Not dangerous goods.

### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

BENZYL ALCOHOL (RING-13C6, 99%) (201740-95-6)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

### 15.2. International regulations

#### CANADA

BENZYL ALCOHOL (RING-13C6, 99%) (201740-95-6)	
Listed on the Canadian DSL (Domestic Substances List)	

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

BENZYL ALCOHOL (RING-13C6, 99%)(201740-95-6)	
State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

# BENZYL ALCOHOL (RING-13C6, 99%) CLM-2298

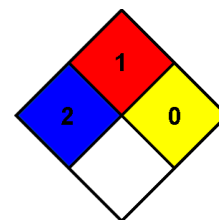
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Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled
R20/22	Harmful by inhalation and if swallowed
R36	Irritating to eyes
Xi	Irritant
Xn	Harmful

- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



### HMIS III Rating

- Health : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability : 1 Slight Hazard
- Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*