

Benzyl Alcohol

Version number: 1.0

SECTION 1: Identification

1.1 Product identifier

Identification of the substance	benzyl alcohol
Trade name	<u>Benzyl Alcohol</u>
CAS number	100-51-6

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

Relevant identified uses	Intermediate Solvents
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1.3 Details of the supplier of the safety data sheet

Valudor Products, LLC 179 Calle Magdalena Suite 100 Encinitas, California CA 92024 United States	Telephone: +1 (760) 635 8500 e-mail: info@valudor.com Website: www.valudor.com
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1.4 Emergency telephone number

Emergency information	800-535-5053 (Infotrac)
As above or nearest toxicological information centre.	

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
A.10	acute toxicity (oral)	4	Acute Tox. 4	H302
A.1I	acute toxicity (inhal.)	4	Acute Tox. 4	H332
A.3	serious eye damage/eye irritation	2A	Eye Irrit. 2A	H319

For full text of abbreviations: see SECTION 16

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word	warning
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Benzyl Alcohol

Pictograms

GHS07



Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

H319 Causes serious eye irritation.

Precautionary statements

P261 Avoid breathing mist/vapors/spray.

P264 Wash 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 protective gloves/protective clothing/eye protection/face protection.

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.

P312 Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Vapors may form explosive mixtures with air.

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance benzyl alcohol

Identifiers

CAS No 100-51-6

Molecular formula C₇H₈O

Molar mass 108.1 g/mol

Name of substance	Identifier	Wt%
benzyl alcohol	CAS No 100-51-6	≥ 90
dibenzyl ether	CAS No 103-50-4	0.1 – < 0.3

Benzyl Alcohol

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Self-protection of the first aider.

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

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

Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth. Do not induce vomiting.

Get medical advice/attention.

Notes for the doctor

None.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation: Dizziness, Headache, Unconsciousness, Nausea.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Vapors may form explosive mixtures with air.

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO₂), pyrolysis products, toxic

Benzyl Alcohol

5.3 Advice for firefighters

Keep containers cool with water spray.
In case of fire and/or explosion do not breathe fumes.
Coordinate firefighting measures to the fire surroundings.
Do not allow firefighting water to enter drains or water courses.
Collect contaminated firefighting water separately.
Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

chemical protection suit, self-contained breathing apparatus (SCBA)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.
Ventilate affected area.
Eliminate all ignition sources if safe to do so.
Do not breathe mist/vapors/spray.
Do not get in eyes, on skin, or on clothing.
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water.
Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to clean up a spill

Collect spillage.
Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal.
Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5.
Personal protective equipment: see section 8.
Incompatible materials: see section 10.
Disposal considerations: see section 13.

Benzyl Alcohol

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Specific notes/details

None.

Handling of incompatible substances or mixtures

Keep away from

oxidizers

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Do not breathe mist/vapors/spray.

Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling.

Preventive skin protection (barrier creams/ointments) is recommended.

7.2 Conditions for safe storage, including any incompatibilities

Explosive atmospheres

Store at temperatures not exceeding 50 °C/122 °F.

Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible substances or mixtures

Incompatible materials: see section 10.

Observe compatible storage of chemicals.

Protect against external exposure, such as

heat, humidity, direct light irradiation, sunlight

Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

Keep container tightly closed.

Store in a dry place. Store in a closed container.

Benzyl Alcohol

Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.

Provision of sufficient ventilation.

Specific designs for storage rooms or vessels

Handle under inert gas. Protect from moisture.

Storage temperature recommended storage temperature: <50 °C

Packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available

8.2 Exposure controls

Appropriate engineering controls

Use local and general ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
IIR: isobutene-isoprene (butyl) rubber	≥ 0,5 mm	>480 minutes (permeation: level 6)
FKM: fluoro-elastomer	≥ 0,4 mm	>480 minutes (permeation: level 6)
PVC: polyvinyl chloride	≥ 0,5 mm	>120 minutes (permeation: level 4)

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection

Protective clothing against liquid chemicals.

Benzyl Alcohol

Respiratory protection

Filtering device (EN 147).

Type : A (against organic gases and vapors with a boiling point of > 65 °C , color code: Brown).

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	clear - colorless
Odor	light Aromatic

Other safety parameters

pH (value)	not applicable
Melting point/freezing point	-15.4 °C
Boiling point or initial boiling point and boiling range	205.3 °C at 1,013 hPa
Flash point	100.4 °C (closed cup)
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	
Vapor pressure	0.07 hPa at 20 °C

Density	1.045 g/cm ³ at 20 °C
Relative density	this information is not available
Relative density / Relative vapour density	these information are not available

Solubility(ies)

Water solubility	40 g/l at 25 °C
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Partition coefficient

n-octanol/water (log KOW)	1.05
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Benzyl Alcohol

Soil organic carbon/water (log KOC)	1.122 – 1.332 (QSAR)
Auto-ignition temperature	436 °C
Decomposition temperature	not relevant
Viscosity	
Kinematic viscosity	5.59 mm ² /s at 20 °C (calculated)
Dynamic viscosity	5.84 mPa s at 20 °C
Explosive properties	not explosive, vapors may form explosive mixtures with air
Oxidizing properties	none
Information for relevant hazard classes according to GHS	hazard classes acc. to GHS (physical hazards): not relevant

9.2 Other information

Temperature class (USA, acc. to NEC 500)	T2 (maximum permissible surface temperature on the equipment: 300°C)
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SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

High temperatures (>180°C): Dangerous/dangerous reactions with: Aluminum, Acid Strong oxidizer, (Sulphuric acid) + Iron.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
UV-radiation/sunlight.
Humidity.

10.5 Incompatible materials

oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.
Hazardous combustion products: see section 5.

Benzyl Alcohol

SECTION 11: Toxicological information

11.1 Information on toxicological effects

If not otherwise specified the classification is based on:

Animal studies; Evidence from any other toxicity tests; Expert judgment (weight of evidence determination).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Harmful if swallowed.

Harmful if inhaled.

Dermal

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Exposure route	Endpoint	Value	Species	Method
oral	LD50	1,620 mg/kg	rat, male	-
inhalation: dust/mist	LC50	>4,178 mg/m ³ /4h	rat	OECD Guideline 403

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Method
benzyl alcohol	100-51-6	oral	LD50	1,620 mg/kg	rat, male	-
benzyl alcohol	100-51-6	inhalation: dust/mist	LC50	>4,178 mg/m ³ /4h	rat	OECD Guideline 403
dibenzyl ether	103-50-4	oral	LD50	3,860 mg/kg	rat	OECD Guideline 401
dibenzyl ether	103-50-4	dermal	LD50	>5,370 mg/kg	rabbit	OECD Guideline 402

Skin corrosion/irritation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Serious eye damage/eye irritation

Causes serious eye irritation.

(ECHA, OECD Guideline 405)

Respiratory or skin sensitization

Skin sensitization

Shall not be classified as a skin sensitizer.

(ECHA, OECD Guideline 429, expert judgment (weight of evidence determination))

Benzyl Alcohol

Respiratory sensitization

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.
(ECHA, OECD Guideline 474)

Carcinogenicity

Shall not be classified as carcinogenic.
(ECHA, OECD Guideline 451)

IARC Monographs

not listed

National Toxicology Program (United States)

not listed

OSHA Carcinogens

Not listed.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.
(ECHA)

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Exposure route	Endpoint	Value	Exposure time	Species	Method	Notes
oral	NOAEL	400 mg/kg bw/day		rat	OECD Guideline 451	
inhalation: dust/mist	NOAEC	1,072 mg/m ³	28 d	rat	OECD Guideline 412	6 hours per day on a 5-day/week

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Other information

There is no additional information.

Benzyl Alcohol

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Based on available data, the classification criteria are not met.

Endpoint	Value	Species	Method	Exposure time
LC50	460 mg/l	fathead minnow (Pimephales promelas)	EPA OPP 72-1	96 h
EC50	230 mg/l	daphnia magna	OECD Guideline 202	48 h
EC50	500 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	72 h
ErC50	770 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	72 h

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method
benzyl alcohol	100-51-6	LC50	96 h	460 mg/l	fathead minnow (Pimephales promelas)	EPA OPP 72-1
benzyl alcohol	100-51-6	EC50	48 h	230 mg/l	daphnia magna	OECD Guideline 202
benzyl alcohol	100-51-6	EC50	72 h	500 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201
benzyl alcohol	100-51-6	ErC50	72 h	770 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201
dibenzyl ether	103-50-4	LC50	96 h	6.8 mg/l	japanese ricefish/ medaka (Oryzias latipes)	OECD Guideline 203
dibenzyl ether	103-50-4	EC50	48 h	0.77 mg/l	Daphnia carinata	OECD Guideline 202
dibenzyl ether	103-50-4	ErC50	72 h	4.1 mg/l	algae (raphidocelis subcapitata)	OECD Guideline 201
dibenzyl ether	103-50-4	EbC50	72 h	1.6 mg/l	algae (raphidocelis subcapitata)	OECD Guideline 201

Aquatic toxicity (chronic)

Based on available data, the classification criteria are not met.

Benzyl Alcohol

Endpoint	Value	Species	Method	Exposure time
EC50	66 mg/l	daphnia magna	OECD Guideline 211	21 d
NOEC	51 mg/l	daphnia magna	OECD Guideline 211	21 d
NOEC	310 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201	72 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method
benzyl alcohol	100-51-6	EC50	21 d	66 mg/l	daphnia magna	OECD Guideline 211
benzyl alcohol	100-51-6	NOEC	21 d	51 mg/l	daphnia magna	OECD Guideline 211
benzyl alcohol	100-51-6	NOEC	72 h	310 mg/l	algae (Desmodesmus subspicatus)	OECD Guideline 201
dibenzyl ether	103-50-4	LC50	21 d	2.2 mg/l	japanese ricefish/medaka (Oryzias latipes)	OECD Guideline 204
dibenzyl ether	103-50-4	ErC50	21 d	0.76 mg/l	daphnia magna	OECD Guideline 202, Part II
dibenzyl ether	103-50-4	EC50	30 min	138 mg/l	microorganisms	-
dibenzyl ether	103-50-4	NOEC	21 d	0.48 mg/l	japanese ricefish/medaka (Oryzias latipes)	OECD Guideline 204
dibenzyl ether	103-50-4	NOEC	21 d	0.098 mg/l	daphnia magna	OECD Guideline 202
dibenzyl ether	103-50-4	NOEC	72 h	1 mg/l	algae (raphidocelis subcapitata)	OECD Guideline 201
dibenzyl ether	103-50-4	LOEC	21 d	2.2 mg/l	japanese ricefish/medaka (Oryzias latipes)	OECD Guideline 204
dibenzyl ether	103-50-4	LOEC	21 d	0.23 mg/l	daphnia magna	OECD Guideline 202, Part II
dibenzyl ether	103-50-4	LOEC	72 h	0.32 mg/l	algae (raphidocelis subcapitata)	OECD Guideline 201

12.2 Persistence and degradability

Biodegradation

The substance is readily biodegradable.

Benzyl Alcohol

Process of degradability			
Process	Degradation rate	Time	Method
oxygen depletion	92 – 96 %	14 d	OECD Guideline 301 C
DOC removal	95 %	21 d	OECD Guideline 301 A

Degradability of components of the mixture

Name of sub-stance	CAS No	Process	Degradation rate	Time	Method
benzyl alcohol	100-51-6	oxygen depletion	92 – 96 %	14 d	OECD Guideline 301 C
benzyl alcohol	100-51-6	DOC removal	95 %	21 d	OECD Guideline 301 A
dibenzyl ether	103-50-4	oxygen depletion	7 %	14 d	OECD Guideline 301 C

Persistence

No data available.

12.3 Bioaccumulative potential

n-octanol/water (log KOW) 1.05

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW
benzyl alcohol	100-51-6	-	0.87 – 1.05 (20 °C)
dibenzyl ether	103-50-4	≥171 – ≤429	3.31

12.4 Mobility in soil

The Organic Carbon normalised adsorption coefficient 1.122 – 1.332 (QSAR)

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Other adverse effects

Not listed.

This information is not available.

Remarks

None.

Benzyl Alcohol

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packages

Completely emptied packages can be recycled.
Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1	UN number	not assigned
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Transport in bulk according to IMO instruments	-

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) Additional information

Not subject to transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) Substance is listed as "ACTIVE"

Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

Not listed

Specific Toxic Chemical Listings (EPCRA Section 313)

Benzyl Alcohol

Not listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Not listed

Clean Air Act

Not listed

Right to Know Hazardous Substance List

Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
benzyl alcohol	100-51-6	-	EU Fragrance Allergens

Toxic or Hazardous Substance List (MA-TURA)

Not listed

Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
benzyl alcohol	100-51-6	I	-

Legend

I American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA

Hazardous Substance List (NJ-RTK)

Not listed

Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
BENZENEMETHANOL	100-51-6	-

Hazardous Substance List (RI-RTK)

Not listed

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Not listed

Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

Not listed

VOC content

Regulated Volatile Organic Compounds (VOC-EPA)

0 %

Benzyl Alcohol

Regulated Volatile Organic Compounds (VOC-Cal ARB)

0 %

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System.
American Coatings Association.

Category	Rating	Description
Chronic	/	none
Health	2	temporary or minor injury may occur
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	-

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard	-	-

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2023-02-07

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
BCF	Bioconcentration factor
Cal ARB	California Air Resources Board
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

Benzyl Alcohol

Abbr.	Descriptions of used abbreviations
DGR	Dangerous Goods Regulations (see IATA/DGR)
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EPA	Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Benzyl Alcohol

Transport of dangerous goods by road or rail (49 CFR US DOT).
International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Responsible for the safety data sheet

Chemical Regulatory Compliance Company Telephone: +1 (630) 410-1660
Jasper, GA e-Mail: GHS@crc-us.com
USA Website: www.crc-us.com

Disclaimer

This information is based upon the present state of our knowledge.
This SDS has been compiled and is solely intended for this product.