

SAFETY DATA SHEET

Creation Date 24-Dec-2009

Revision Date 13-Oct-2023

Revision Number 8

Product Name	Benzyl alcohol		
Cat No. :	A392-4; A395-4; A395-500; A396-4; A396-200; A396-500; O1390-4; S79919; XXA396; NC1219095		
CAS No	100-51-6		
Synonyms	Benzenemethanol; Phenylcarbinol (NF/EP/BP/Certified)		
Recommended Use	Laboratory chemicals.		
Uses advised against	Food, drug, pesticide or biocidal product use.		

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

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

Acute oral toxicity	Category 4	
Acute Inhalation Toxicity - Vapors	Category 4	
Serious Eye Damage/Eye Irritation	Category 2	

Label Elements

Signal Word Warning

Hazard Statements

Causes serious eye irritation Harmful if swallowed or if inhaled



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Response

Get medical attention/advice if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Eyes

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

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Benzyl alcohol	100-51-6	>95

4. First-aid measures			
General Advice	If symptoms persist, call a physician.		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.		
Ingestion	Clean mouth with water and drink afterwards plenty of water.		
Most important symptoms and effects Notes to Physician	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically		
	5. Fire-fighting measures		

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	96 °C / 204.8 °F
Method -	No information available
Autoignition Temperature	435 °C / 815 °F
Explosion Limits	
Upper	13 vol %
Lower	1.3 vol %
Sensitivity to Mechanical Impac	ct No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Containers may explode when heated. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Up

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

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

NFPA Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions		uipment as required. Ensure a the environment. Do not flush	

sewer system. Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents.
	8. Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipn	nent

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Organic gases and vapours filter. Type A. Brown. conforming to EN14387.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties			
Physical State	Liquid		
Appearance	Light yellow		
Odor	aromatic		
Odor Threshold	No information available		
рН	No information available		
Melting Point/Range	-15 °C / 5 °F		
Boiling Point/Range	205 °C / 401 °F		
Flash Point	96 °C / 204.8 °F		
Evaporation Rate	No information available		
Flammability (solid,gas)	Not applicable		
Flammability or explosive limits			
Upper	13 vol %		
Lower	1.3 vol %		
Vapor Pressure	0.13 mbar @ 20 °C		
Vapor Density	3.72 (Air = 1.0)		
Specific Gravity	1.044		
Solubility	Soluble in water		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	435 °C / 815 °F		
Decomposition Temperature	No information available		
Viscosity	6.6 mPa.s at 20 °C		
Molecular Formula	C7 H8 O		
Molecular Weight	108.14		
-			

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Air sensitive. Hygroscopic.	
Conditions to Avoid	Excess heat. Exposure to moist air or water. Exposure to air.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	

Acute Toxicity

Product Information

Component		LD50 Oral	LD50 Oral LD50 Dermal		LC50 Inhalation		
Benzyl alcohol Ll		LD50 = 1230 mg/kg (Ra	at) LD50	= 2 g/kg (Rabbit)	LC50 > 4178	mg/m ³ (Rat)41	
Foxicologically Syn Products Delayed and immed			No information available				
Irritation		Irritating to eyes	Irritating to eyes				
Sensitization		No information avai	ilable				
Carcinogenicity		The table below ind	licates whether ea	ach agency has liste	ed any ingredient a	as a carcinoger	
Component	CAS No	D IARC	NTP	ACGIH	OSHA	Mexico	
Benzyl alcohol	100-51-	6 Not listed	Not listed	Not listed	Not listed	Not listed	
Reproductive Effec Developmental Effe Feratogenicity		No information avai No information avai No information avai	ilable.				
STOT - single exposure STOT - repeated exposure		None known	None known None known				
	posure	None known					
STOT - repeated ex	posure	None known No information avai	ilable				
STOT - repeated ex				neadache, dizzines	s, tiredness, nause	ea and vomiting	
STOT - repeated ex Aspiration hazard Symptoms / effects	s,both acute	No information avai	exposure may be l	neadache, dizzines	s, tiredness, nause	ea and vomiting	

12. Ecological information

Ecotoxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzyl alcohol	Not listed	LC50: = 460 mg/L, 96h static (Pimephales promelas) LC50: = 10 mg/L, 96h static (Lepomis macrochirus)		EC50: = 23 mg/L, 48h (water flea)

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/Accumulation

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Benzyl alcohol	1.05

Use 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.

	14. Transport information	
DOT	Not regulated	
DOT _ <u>TDG</u> IATA_	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzyl alcohol	100-51-6	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzyl alcohol	100-51-6	Х	-	202-859-9	Х	Х	Х	Х	Х	KE-02570

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzyl alcohol	Х	-	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant DOT Severe Marine Pollutant	N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	5	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Benzyl alcohol	100-51-6	-	-	-

Not applicable

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzyl alcohol	100-51-6	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
L	Benzyl alcohol	100-51-6	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	24-Dec-2009
Revision Date	13-Oct-2023
Print Date	13-Oct-2023
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS