



MATERIALS SAFETY DATA SHEET (MSDS) Benzyl alcohol (C6H5CH2OH)	MSDS Number:	
	Version number:	
	Date issued:	
	Page No:	

1. Product Identification

Chemical name	Benzyl Alcohol
Synonym(s)	Alpha-hydroxytoluene, Benzoyl alcohol, Phenyl carbinol, Phenyl methanol
Product use	For manufacturing, processing, laboratory or repacking use only.
CAS No	100-51-6

Manufacturer/Importer/Supplier/Distributor information


Manufacturer Supplier	
E-Mail	
Contact Person	Entity 1 Made by India
Emergency Telephone	

2. Hazard(s) identification

Physical hazards	
Flammable liquids	Flammable liquids Category 4
Health hazards	
Acute toxicity, oral	Category 4
Acute toxicity, inhalation	Category 4



Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Sensitization, skin	Category 1

OSHA defined hazards	Not classified.
Label elements	
Signal word	Warning
Hazard statement	Combustible liquid. Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.
Precautionary statement	
Prevention	Keep away from flames and hot surfaces-No smoking. Avoid breathing mist/vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep cool
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.



Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition and ingredient information

Chemical name	CAS number	%
Benzyl alcohol	100-51-6	99

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated. Clothing before reuse.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.
-------------------------------------	---



Unsuitable extinguishing media	Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media
Special hazards arising from the substance or mixture	In case of fire may be liberated: Pyrolysis products, toxic
Advice for firefighters	Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.
Special protective equipment for firefighters	According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Ensure that air-handling systems are operational.
Environmental precautions	Should not be released into environment. Prevent from reaching drains, sewer, or waterway.
Methods and material for containment and cleaning up	Wear protective eyewear, gloves, and clothing. Provide ventilation. Use spark-proof tools and explosion-proof equipment. Always obey local regulations. If necessary, use trained response staff or contractor. Clean up spills immediately observing precautions. Absorb with inert material and containerize for disposal. Sweep up and containerize for disposal. Follow proper disposal methods.

Entity 1 | Made by India

7. Handling and storage

Precautions for safe Handling

Precautions for safe handling	Avoid contact with skin and eyes. Do not breathe vapours. Use only outdoors or in a well ventilated area. Avoid breathing dust, fume, gas, mist, spray, vapours. Wear personal protective equipment.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product

Conditions for safe storage, including any incompatibilities



Storage conditions	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.
--------------------	--

8. Exposure Controls/ Personal Protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Ingredient name	Exposure limits
Benzyl alcohol	TWA: 44.2 mg/m ³ 10 ppm
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Chemical goggles are recommended.
Skin protection	Hand protection : Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.
Skin protection	Other : Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary
General hygiene considerations	When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.



9. Physical and chemical properties

Physical state	Liquid
Appearance	Clear, colourless liquid.
Molecular mass	108.14 g/mol
Colour	Colourless.
Odour	faint aromatic odour.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butyl acetate=1)	No data available
Melting point	Not applicable
Freezing point	-16 – -13 °C
Boiling point	203 – 205 °C
Flash point	96 °C
Auto-ignition temperature	435 °C
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	0.125 hPa at 20°C
Relative vapour density at 20 °C	3.72 (Air = 1)
Relative density	No data available
Density	1.045 g/cm ³
Solubility	Water: 33 g/l at 20°C. Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	1.05 at 20°C
Viscosity, kinematic	4.833 mm ² /s
Viscosity, dynamic	5.05 mPa·s at 25°C
Explosive properties	No data available
Oxidising properties	No data available
Lower explosive limit (LEL)	1.3 vol %



Upper explosive limit (UEL)	13 vol %
Refractive index	1.536 (≥ 1.542) (20°C, 589 nm)

10. Stability and reactivity

Reactivity	The product does not present hazards by their reactivity.
Chemical stability	The product is chemically stable under recommended conditions of storage, use and temperature
Possibility of hazardous reactions	The product does not present possibility of hazardous reactions
Conditions to avoid	Avoid any improper handling.
Incompatible materials	Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.
Hazardous decomposition products	In case of fire may be liberated: Hazardous combustion products

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled.
Skin contact	May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects		
Product	Species	Test Results
Acute Dermal LD50	Rabbit	2000 mg/kg
Inhalation Aerosol LC50	Rat	> 4.178 mg/l, 4 Hours



Oral LD50	Rat	1610 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall Evaluation of Carcinogenicity	Not listed.	
NTP Report on Carcinogens	Not listed.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	Not regulated	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
--------------------	--

Product (Benzyl alcohol)	Species	Test Results
Aquatic		
Algae EC50	Algae	700 mg/l, 72 Hours



Crustacea EC50	Daphnia magna	202 mg/l, 48 Hours
Fish LC50	Fathead minnow (Pimephales promelas)	460 mg/l, 96 hours

Persistence and degradability	No data is available on the degradability of this substance
Bio accumulative potential	No data available for this product
Mobility in soil	The product is slightly soluble in water
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

Waste treatment methods	The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation. Follow the provisions of Directive 2008/98/EC regarding waste management.
Product/Packaging disposal	
Waste treatment options	Recycle according to official regulations. Evidence for disposal must be provided.
Appropriate disposal / Product	Dispose of waste according to applicable legislation
Appropriate disposal / Package	Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

14. Transport information

DOT	Not regulated as dangerous goods
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods

15. Regulatory information

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



Basis	Remarks
Substances of very high concern (SVHC)	This product does not contain substances of very high concern according to Regulation (EC) NoArticle 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1\%$ (w/w).
Directive 2012/18/EC	Not applicable

16. Any other relevant information

History

Product name	
Product code	
Date of printing	
Date of issue/Date of revision	
Date of previous issue	
Version	
Prepared by	

17. Change Details

Entity 1 | Made by India