

Safety Data Sheet: Benzyl Alcohol

1. Identification

Product	Benzyl Alcohol; CAS 100-51-6; EC 202-859-9
Use	Professional aromatic-alcohol solvent and specialty formulation.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Benzyl Alcohol. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Acute oral toxicity Category 4; serious eye irritation Category 2; skin sensitization Category 1B.
Signal word / symbols	Warning; GHS07
Hazard statements	H302: harmful if swallowed. H317: may cause an allergic skin reaction. H319: causes serious eye irritation.
Prevention	Use controlled liquid transfer and suitable local ventilation. Wear compatible chemical-resistant gloves, splash goggles and work clothing. Avoid mist, vapour, ingestion and skin contact; maintain eyewash access.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	Benzyl alcohol, CAS 100-51-6, EC 202-859-9. The selected liquid substance reference lists ≤100%; supply assay ≥98.0%. No delivered-lot impurity proportion is asserted.
Supply grade	Assay ≥98.0%
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to mist.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice.
Effects / treatment	Eye irritation and allergic skin reactions are possible. Overexposure can cause headache, dizziness, nausea or vomiting; seek medical assessment after exposure or persistent symptoms. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use water spray, carbon dioxide, dry chemical or alcohol-resistant foam. Heated containers can rupture; cool exposed closed containers where safe. Firefighters need full protection and breathing apparatus.
Hazards	Fire or thermal decomposition can release carbon monoxide, carbon dioxide and irritating fumes.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personal protection	Restrict access and use ventilation and appropriate PPE. Avoid contact, mist and slippery surfaces.
Containment	Stop the leak when safe, absorb with compatible inert material and collect in labelled closed containers.
Environment	Prevent drainage and uncontrolled release; use an approved disposal route.

7. Handling and Storage

Handling	Use controlled liquid transfer and suitable local ventilation. Wear compatible chemical-resistant gloves, splash goggles and work clothing. Avoid mist, vapour, ingestion and skin contact; maintain eyewash access.
Storage	Keep tightly closed in a cool, dry, ventilated place away from strong oxidizers, heat, sparks and flames. Minimize prolonged air exposure; use an inert atmosphere where required by the handling procedure.
Incompatibilities	Strong oxidizing agents; excess heat, ignition sources and prolonged exposure to air or moisture.

8. Exposure Controls / Personal Protection

Exposure limits	The selected reference lists no substance-specific numerical occupational exposure limit. Control vapour and mist with effective ventilation and follow local workplace requirements.
Engineering controls	Use local extraction where mist can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	Colourless liquid
Formula / molecular weight	C7H8O / 108.14 g/mol
Form, supply	Colourless liquid
Flash point, reference	96°C
Boiling point, reference	205°C
Melting point, reference	-15°C
Water solubility, reference	40 g/L at 20°C
Other properties	Product-specific values for odor threshold, vapor pressure, partition coefficient, autoignition temperature and viscosity are not supplied by the selected reference set. No values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Strong oxidizing agents; excess heat, ignition sources and prolonged exposure to air or moisture.
Decomposition	Fire or thermal decomposition can release carbon monoxide, carbon dioxide and irritating fumes.

11. Toxicological Information

Exposure effects	Eye irritation and allergic skin reactions are possible. Overexposure can cause headache, dizziness, nausea or vomiting; seek medical assessment after exposure or persistent symptoms.
Reference classification	Acute oral toxicity Category 4; serious eye irritation Category 2; skin sensitization Category 1B.
Data limits	Reference rat oral LD50 1,230 mg/kg and inhalation LC50 >4,178 mg/m3 over four hours. Skin sensitization and eye irritation classifications remain applicable; no supplied-batch chronic study is asserted.

12. Ecological Information

Environmental effects	Prevent uncontrolled releases. Reference fish LC50 10 mg/L over 96 hours and water-flea EC50 23 mg/L over 48 hours. These values do not establish finished-formulation safety.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Non-dangerous goods
UN number	Not assigned
Shipping name	Not regulated as dangerous goods
Class / packing group	DOT / TDG, IMDG and IATA: non-dangerous goods in the selected liquid substance reference; no assigned UN number or packing group. Combustible-liquid handling precautions still apply.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Benzyl Alcohol; CAS 100-51-6; EC 202-859-9
HS reference	290621; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish authorization for a finished formulation.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H302: harmful if swallowed. H317: may cause an allergic skin reaction. H319: causes serious eye irritation.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.1; prepared 2026-10-07. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

Revision: 2026.1 | Revision date: 2026-10-07