

Safety Data Sheet: Dimethyl Benzyl Carbinol

1. Identification

Product	Dimethyl Benzyl Carbinol; CAS 100-86-7; EC 202-896-0
Use	Professional aroma and fragrance formulation development.
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 Dimethyl Benzyl Carbinol. 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	Selected US reference: flammable liquid Category 4; acute oral toxicity Category 4; serious eye irritation Category 2A.
Signal word / symbols	Warning; GHS07
Hazard statements	H227: combustible liquid. H302: harmful if swallowed. H319: causes serious eye irritation.
Prevention	Provide effective ventilation; avoid vapour, ingestion and skin or eye contact. Wear compatible chemical-resistant gloves, goggles and protective clothing. Ground transfer equipment and keep ignition sources away.
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	2-Methyl-1-phenylpropan-2-ol, CAS 100-86-7, EC 202-896-0. Matched substance reference 100%; supply GC assay ≥99.0%. No unverified impurity identity or fraction is assigned.
Supply grade	GC assay ≥99.0%
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	Do not induce vomiting. Rinse mouth if conscious, keep the airway clear and contact a poison centre or doctor. Never give anything orally to an unconscious person.
Effects / treatment	Eye contact can cause significant irritation, watering and blurred vision. Harmful if swallowed; seek medical advice after ingestion 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. Avoid a solid water jet, contain runoff and use protective clothing and breathing apparatus.
Hazards	Fire can produce carbon oxides and irritating fumes; no hazardous decomposition is identified under normal storage.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personal protection	Provide effective ventilation; avoid vapour, ingestion and skin or eye contact. Wear compatible chemical-resistant gloves, goggles and protective clothing. Ground transfer equipment and keep ignition sources away.
Containment	Remove ignition sources and stop leakage when safe. Contain liquid with compatible inert absorbent and collect in labelled closed containers. Restrict access and use trained response personnel.
Environment	Prevent drainage and uncontrolled release; use an approved disposal route.

7. Handling and Storage

Handling	Provide effective ventilation; avoid vapour, ingestion and skin or eye contact. Wear compatible chemical-resistant gloves, goggles and protective clothing. Ground transfer equipment and keep ignition sources away.
Storage	Keep tightly closed in a cool, dry, well-ventilated place away from heat, flames and strong oxidizers. Protect from contamination and unnecessary temperature cycling.
Incompatibilities	Strong oxidizing agents; excessive heat and ignition sources.

8. Exposure Controls / Personal Protection

Exposure limits	The selected reference supplies no ingredient-specific PEL or TLV. Control vapour and unnecessary exposure under 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 to slightly yellow liquid or low-melting solid
Formula / molecular weight	C10H14O / 150.22 g/mol
Physical state	Liquid or low-melting solid
Melting range, reference	23–25°C
Boiling range, reference	215–216°C
Flash point, reference	81.1°C, closed cup
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; excessive heat and ignition sources.
Decomposition	Fire can produce carbon oxides and irritating fumes; no hazardous decomposition is identified under normal storage.

11. Toxicological Information

Exposure effects	Eye contact can cause significant irritation, watering and blurred vision. Harmful if swallowed; seek medical advice after ingestion or persistent symptoms.
Reference classification	Selected US reference: flammable liquid Category 4; acute oral toxicity Category 4; serious eye irritation Category 2A.
Data limits	The selected reference classifies oral toxicity and serious eye irritation but supplies no numerical acute toxicity endpoint. Inhalation and aquatic toxicity datasets are incomplete; no supplied-lot chronic study is asserted.

12. Ecological Information

Environmental effects	No aquatic classification is assigned in the selected reference, but quantitative aquatic, persistence and bioaccumulation data are incomplete. Prevent drainage and uncontrolled release.
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	ADR / RID, IMDG and IATA: non-dangerous goods. US DOT bulk shipments: NA1993, combustible liquid, n.o.s., packing group III; non-bulk reference shipments are not regulated as dangerous goods.
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	Dimethyl Benzyl Carbinol; CAS 100-86-7; EC 202-896-0
HS reference	290629; 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	H227: combustible liquid. H302: harmful if swallowed. 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