



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS), Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), and UAE GSO requirements

SECTION 1: Identification

1.1 Product Identifier

Product Name: Benzaldehyde

Chemical Name: Benzaldehyde

CAS Number: 100-52-7

EC Number: 202-860-4

INCI Name: Benzaldehyde

1.2 Recommended Use

Raw material for:

- Fine Fragrance
 - Cosmetics
 - Personal Care Products
 - Soap
 - Candles
 - Home Fragrance
 - Professional Perfumery Applications
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1.3 Restrictions on Use

For industrial and professional use only.

Not intended for food, pharmaceutical or therapeutic applications unless specifically approved.



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SECTION 2: Hazard Identification

GHS Classification

- Acute Toxicity (Oral) – Category 4
 - Skin Irritation – Category 2
 - Eye Irritation – Category 2A
 - Acute Aquatic Toxicity – Category 3
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Signal Word

WARNING

Hazard Statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.



H402 Harmful to aquatic life.

Precautionary Statements

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection.

P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

P332+P313 If skin irritation occurs: Get medical advice.

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

P501 Dispose of contents/container according to local regulations.

SECTION 3: Composition / Information on Ingredients

Component	CAS Number	EC Number	Concentration
Benzaldehyde	100-52-7	202-860-4	≥99%

SECTION 4: First Aid Measures

Eye Contact

Flush immediately with water for at least 15 minutes.

Seek medical attention if irritation persists.

Skin Contact



Wash thoroughly with soap and water.

Remove contaminated clothing.

Seek medical advice if irritation develops.

Inhalation

Move exposed person to fresh air.

Obtain medical attention if symptoms persist.

Ingestion

Rinse mouth.

Do not induce vomiting.

Seek immediate medical advice.

Most Important Symptoms

- Skin irritation
 - Eye irritation
 - Gastrointestinal discomfort if swallowed
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SECTION 5: Fire Fighting Measures

Suitable Extinguishing Media

- Carbon dioxide
- Dry chemical
- Alcohol-resistant foam
- Water spray

Unsuitable

Direct water jet.



Hazardous Combustion Products

- Carbon monoxide
- Carbon dioxide

Protective Equipment

Self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

Wear appropriate PPE.

Prevent release into drains.

Absorb with:

- Sand
- Vermiculite
- Inert absorbent

Collect into suitable disposal containers.

SECTION 7: Handling and Storage

Handling

Avoid contact with skin and eyes.

Avoid inhalation of vapours.

Use adequate ventilation.

Maintain good industrial hygiene.

Storage

Store:



- Cool
- Dry
- Well ventilated

Keep tightly closed.

Recommended storage temperature:

15–25 °C

Protect from:

- Heat
- Direct sunlight
- Oxidising agents

SECTION 8: Exposure Controls / Personal Protection

Engineering Controls

Local exhaust ventilation.

Eye Protection

Chemical safety goggles.

Hand Protection

Nitrile gloves.

Respiratory Protection

Organic vapour respirator where ventilation is inadequate.

Protective Clothing

Laboratory coat or chemical-resistant clothing.

SECTION 9: Physical and Chemical Properties

Property	Value
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Property	Value
Appearance	Clear liquid
Colour	Colourless to pale yellow
Odour	Bitter almond, sweet, cherry-like
Physical State	Liquid
Molecular Formula	C_7H_6O
Molecular Weight	106.12 g/mol
Boiling Point	178–179°C
Melting Point	-26°C
Flash Point	Approx. 64°C
Relative Density (20°C)	1.041–1.045
Refractive Index (20°C)	1.544–1.547
Water Solubility	Slightly soluble
Solubility	Miscible with ethanol and perfumery solvents

SECTION 10: Stability and Reactivity

Stable under recommended storage conditions.

Avoid

- Strong oxidising agents
- Strong reducing agents
- Excessive heat

Hazardous Decomposition Products

- Carbon monoxide
 - Carbon dioxide
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SECTION 11: Toxicological Information

Acute Toxicity

Harmful if swallowed.

Skin Contact

Causes skin irritation.



Eye Contact

Causes serious eye irritation.

Respiratory Sensitisation

Not classified.

Skin Sensitisation

Not classified.

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive Toxicity

Not classified.

Aspiration Hazard

Not classified.

SECTION 12: Ecological Information

Ecotoxicity

Harmful to aquatic life.

Persistence

Readily biodegradable.

Bioaccumulation

Low potential.

Mobility



Moderately mobile in soil.

Avoid environmental release.

SECTION 13: Disposal Considerations

Dispose through an authorised waste disposal contractor.

Do not discharge into drains or waterways.

Dispose of contaminated packaging according to local regulations.

SECTION 14: Transport Information

Item	Information
UN Number	Not regulated
Proper Shipping Name	Not regulated
Transport Hazard Class	Not applicable
Packing Group	Not applicable
Marine Pollutant	No

SECTION 15: Regulatory Information

Prepared in accordance with:

- GHS (Globally Harmonized System)
 - Regulation (EC) No. 1907/2006 (REACH)
 - Regulation (EC) No. 1272/2008 (CLP)
 - UAE GSO Chemical Safety Requirements
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SECTION 16: Other Information

Intended Use

This material is supplied exclusively as a fragrance raw material for industrial, laboratory, and professional perfumery applications.



Abbreviations

- GHS – Globally Harmonized System
- CAS – Chemical Abstracts Service
- EC – European Community
- REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals
- CLP – Classification, Labelling and Packaging
- PPE – Personal Protective Equipment
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG – International Maritime Dangerous Goods Code
- IATA – International Air Transport Association

Disclaimer

The information contained in this Safety Data Sheet is based on current scientific knowledge and is believed to be accurate at the date of publication. It is intended solely as guidance for the safe handling, storage, transportation, use, and disposal of the product. Users are responsible for ensuring compliance with applicable regulations and determining the suitability of this material for their intended application.

Authorized By

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