



## **MATERIAL SAFETY DATA SHEET (MSDS)**

According to UN GHS / REACH / CLP Regulations

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NATURAL BENZALDEHYDE

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### SECTION 1: IDENTIFICATION

Product Name: Natural Benzaldehyde

CAS Number: 100-52-7

Molecular Formula:  $C_7H_6O$

Molecular Weight: 106.12 g/mol

Product Type: Natural aroma chemical (aldehyde)

Recommended Use:

Fragrance, flavour, cosmetic, pharmaceutical, and air care applications

Restriction:

Not for personal use in this form or concentration

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Supplier:

AROMOLOGY

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### SECTION 2: HAZARD IDENTIFICATION

Classification (GHS)

- Acute Toxicity (Oral) – Category 4
- Acute Toxicity (Inhalation) – Category 4
- Skin Irritation – Category 3



- Eye Irritation – Category 2B
- Aquatic Acute Toxicity – Category 3
- Aquatic Chronic Toxicity – Category 2

Signal Word:

WARNING

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#### Hazard Statements

- H302 + H332 – Harmful if swallowed or inhaled
  - H316 – Causes mild skin irritation
  - H320 – Causes eye irritation
  - H402 – Harmful to aquatic life
  - H411 – Toxic to aquatic life with long lasting effects
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#### Precautionary Statements

- Avoid breathing vapours
  - Use only in well-ventilated areas
  - Do not eat, drink, or smoke when using
  - Avoid release to the environment
  - IF SWALLOWED: Seek medical advice
  - IF INHALED: Move to fresh air
  - IF IN EYES: Rinse cautiously with water
  - Dispose contents in accordance with regulations
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#### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS



Substance	CAS	Concentration
Benzaldehyde (Natural)	100-52-7	100%

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#### SECTION 4: FIRST AID MEASURES

##### Inhalation:

Move to fresh air and seek medical advice if symptoms persist

##### Skin Contact:

Wash thoroughly with water and remove contaminated clothing

##### Eye Contact:

Rinse immediately with water and consult an ophthalmologist

##### Ingestion:

Rinse mouth and seek immediate medical attention

✓ Based on SDS guidance

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#### SECTION 5: FIRE-FIGHTING MEASURES

##### Extinguishing Media:

Use appropriate extinguishing media based on surroundings

##### Hazards:

Vapours may form explosive mixtures with air

##### Protection:

Use self-contained breathing apparatus

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

- Ensure adequate ventilation
- Avoid inhalation and contact
- Absorb with inert material
- Prevent entry into drains or waterways



- Dispose according to regulations

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## SECTION 7: HANDLING AND STORAGE

### Handling:

Use local exhaust ventilation

Avoid inhalation of vapours

Maintain good hygiene practices

### Storage:

Keep container tightly closed

Store in a secure, well-ventilated area

Restrict access to authorized personnel

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering Controls:

Use adequate ventilation systems

### PPE:

- Safety goggles / face shield
- Chemical-resistant gloves (butyl rubber recommended)
- Protective clothing

### Respiratory Protection:

Use if ventilation is insufficient

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical State	Liquid
Colour	Colourless to pale yellow
Odour	Almond-like



Property	Value
Melting Point	-26 °C
Boiling Point	~179 °C
Flash Point	~62 °C
Density	~1.05 g/cm <sup>3</sup>
Vapour Pressure	1.26 hPa (20°C)
Log Kow	~1.48
Water Solubility	~6.95 g/L

(Data from SDS)

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#### SECTION 10: STABILITY AND REACTIVITY

- Stable under normal conditions
  - Avoid excessive heat
  - Avoid incompatible materials
  - No hazardous decomposition expected
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#### SECTION 11: TOXICOLOGICAL INFORMATION

- LD50 oral: ~1430 mg/kg (rat)
- LD50 dermal: >2000 mg/kg (rabbit)
- LC50 inhalation: 1–5 mg/L

Effects:

- Harmful if swallowed or inhaled
- Mild skin irritant
- Eye irritant



No carcinogenic, mutagenic, or reproductive toxicity identified

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#### SECTION 12: ECOLOGICAL INFORMATION

- Toxic to aquatic life with long lasting effects
- LC50 fish: ~1.07 mg/L
- EC50 daphnia: ~19.7 mg/L
- Readily biodegradable (~95% in 28 days)
- Low bioaccumulation potential

✓ Based on environmental data

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#### SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with local regulations.  
Do not release into drains, soil, or waterways

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#### SECTION 14: TRANSPORT INFORMATION

Parameter	Value
UN Number	UN 1990
Proper Shipping Name	Benzaldehyde
Class	9
Packing Group	III
Marine Pollutant	Yes

✓ Classified for transport

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#### SECTION 15: REGULATORY INFORMATION

- Not classified as SVHC under REACH



- Not subject to authorisation (Annex XIV)
- Compliant with CLP and GHS regulations

✓ Regulatory data confirmed

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## SECTION 16: OTHER INFORMATION

This MSDS is adapted from supplier documentation (Axxence Aromatic GmbH) and reflects current regulatory data.

Information is provided for safe handling, storage, and use.