



## Section 1 - Chemical Product and Company Identification

**Product Name** Benzaldehyde pure, 99%  
**Product Code** 37278  
**CAS No** 100-52-7  
**Use for** Laboratory Chemicals.  
**Company Name** Sisco Research Laboratories Pvt. Ltd.  
**Address** 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
100-52-7	Benzaldehyde	<=100	202-860-4

## Section 3 - Hazards Identification



### EMERGENCY OVERVIEW

*Harmful if swallowed.*

#### Potential Health Effects

**Eye:** May cause eye irritation. Causes redness and pain.  
**Skin:** May cause skin irritation. Causes redness and pain. May be harmful if absorbed through the skin. Contact with the skin defats the skin. Substance is readily absorbed through the skin.  
**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause a narcotic effect with possible coma. May cause central nervous system depression. May cause headache, nausea, fatigue, and dizziness. May cause convulsions.  
**Inhalation:** May cause respiratory tract irritation. May cause asthma and shortness of breath. May be harmful if inhaled.  
**Chronic:** Prolonged or repeated skin contact may cause dermatitis. Chronic exposure may cause degenerative muscle and myocardium changes.

## Section 4 - First Aid Measures



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<b>Product Code</b>	37278
<b>Eyes:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<b>Skin:</b>	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Ingestion:</b>	Get medical aid. Wash mouth out with water.
<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
<b>Notes to Physician:</b>	Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Combustible liquid. Can form explosive mixtures at temperatures above the flashpoint.
<b>Extinguishing Media:</b>	Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition.

## Section 7 - Handling and Storage

<b>Handling:</b>	Use with adequate ventilation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Take precautionary measures against static discharges.
<b>Storage:</b>	Room Temperature

## Section 8 - Exposure Control / Personal Protection

<b>Engineering Controls:</b>	Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
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**Exposure Limits**  
CAS# 100-52-7:

### Personal Protective Equipment

<b>Eyes:</b>	Wear chemical splash goggles.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



Product Code 37278

## Section 9 - Physical and Chemical Properties

Physical State: Liquid  
Solubility in water: Slightly soluble  
Specific Gravity/Density: 1.050  
Molecular Formula: C7H6O  
Molecular Weight: 106.12

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. Air sensitive. Sensitive to light.  
**Conditions to Avoid:** High temperatures, incompatible materials, light, ignition sources, moisture, exposure to air, heat.  
**Incompatibilities with Other Materials** Strong oxidizing agents, strong reducing agents, bases, aluminum, iron, peroxides, phenols, oxygen, alkalies.  
**Hazardous Decomposition Products** Carbon monoxide, carbon dioxide.  
**Hazardous Polymerization** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:** CAS# 100-52-7: CU4375000  
**LD50/LC50:** RTECS:  
**CAS# 100-52-7:** Draize test, rabbit, skin: 500 mg/24H Moderate;  
Oral, mouse: LD50 = 28 mg/kg;  
Oral, mouse: LD50 = 2020 mg/kg;  
Oral, rat: LD50 = 1300 mg/kg;  
Oral, rat: LD50 = 2400 mg/kg;  
**Carcinogenicity:** Benzaldehyde - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
**Other:** See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

**Ecotoxicity:** Fish: Rainbow trout: LC50 = 11mg/l; 96H; .  
Fish: Bluegill/Sunfish: LC50 = 1.1 mg/l; 96H; .  
Bacteria: Phytobacterium phosphoreum: EC50 = 5.32 mg/l; 5, 15, 30 min; Microtox test  
Fish: Pimephals prome: CL50 = 7.61 mg/l; 96H; .  
Daphnia: Daphnia: CE0 = 6.3mg/l; 24H; .  
Daphnia: Daphnia: CE0 =50 mg/l; 24H; .  
Fish: Leuciscus idus: CL0 = 31 mg/l; 48H; .

**Other:** Avoid entering into waters or underground water. Do not empty into drains.log POW = 1.5

## Section 13 - Disposal Considerations



**Product Code** 37278

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

IATA	IMO	RID/ADR	
<b>Shipping Name:</b>	BENZALDEHYDE	BENZALDEHYDE	BENZALDEHYDE
<b>Hazard Class:</b>	9	9	9
<b>UN Number:</b>	1990	1990	1990
<b>Packing Group:</b>	III	III	III

## Section 15 - Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

S 24 Avoid contact with skin.

WGK (Water Danger/Protection)

CAS# 100-52-7: 2

Canada

CAS# 100-52-7 is listed on Canada's DSL List

### US Federal

TSCA

CAS# 100-52-7 is listed on the TSCA Inventory.

## Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.