CONTACT : LEONID CHEMICALS
62/A-2 2nd Stage, Industrial Suburb
Ashokpuram School Road, Yeshwanthpur
Bangalore-560 022, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357

Benzaldehyde, 98+%

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
Benzaldehyde, 98+%

Catalog Numbers:
B/2550, BP/B150

Synonyms:
No information available.

Company Information:
LEONID CHEMICALS
62/A-2 1st Stage, Yeshwanthpur Industrial Suburb
Ashokpuram School Road
Bangalore-560 022, Karnataka, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	100-52-7
Chemical Name	:	|Benzaldehyde
%	:	98+%
EINECS#	:	202-860-4
Hazard Symbols	:	XN
Risk Phrases	:	22

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Harmful if swallowed.Light sensitive.Air sensitive.

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

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:
Get medical aid. Wash mouth out with water.

Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:
Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

General Information:
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.

Extinguishing Media:
Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information:
Use proper personal protective equipment as indicated in Section 8.

CHEMLABS™
62/A-2 2nd Stage, Industrial Suburb
Ashokpuram School Road, Yeshwanthpur
Bangalore-560 022, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

Spills/Leaks:

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

Handling:

Use with adequate ventilation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Take precautionary measures against static discharges.

Storage:

Keep away from sources of ignition. Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container. Store protected from moisture.

SECTION 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Color	:	Clear colorless to pale yellow
Odor	:	Bitter-almond
PH	:	5.9(1g/l aq.sol.)
Vapor Pressure	:	1.2 mbar @20 deg C

CHEMLABS
62/A-2 2nd Stage, Industrial Suburb
Ashokpuram School Road, Yeshwanthpur
Bangalore-560 022, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

Viscosity	:	No information available.
Boiling Point	:	179 deg C @760mmHg
Freezing/Melting Point	:	-56 deg C
Autoignition Temperature	:	190 deg C (374.00 deg F)
Flash Point	:	64 deg C (147.20 deg F)
Explosion Limits, lower	:	1.4 vol%
Explosion Limits, upper	:	8.5 vol%
Decomposition Temperature	:	No information available.
Solubility in water	:	6.50g/l in water (20°C)
Specific Gravity/Density	:	1.0443
Molecular Formula	:	C7H6O
Molecular Weight	:	106.12

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:
Stable.

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:
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 by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information. 0M.

CHEMLABS
62/A-2 2nd Stage, Industrial Suburb
Ashokpuram School Road, Yeshwanthpur
Bangalore-560 022, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

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 testFish: 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; .log POW = 1.5

Other
Avoid entering into waters or underground water. Do not empty into drains.

SECTION 13 -DISPOSAL CONSIDERATIONS

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

---

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name	:	BENZALDEHYDE
Hazard Class	:	9
UN Number	:	1990
Packing Group	:	III

IMO

Shipping Name	:	BENZALDEHYDE
Hazard Class	:	9
UN Number	:	1990
Packing Group	:	III

RID/ADR

Shipping Name	:	BENZALDEHYDE
Hazard Class	:	9
UN Number	:	1990
Packing group	:	III

SECTION 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols:
XN

CHEMLABS
62/A-2 2nd Stage, Industrial Suburb
Ashokpuram School Road, Yeshwanthpur
Bangalore-560 022, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

S 24 Avoid contact with skin.

WGK (Water Danger/Protection)

CAS# 100-52-7: 2

United Kingdom Occupational Exposure Limits

No information available.

United Kingdom Maximum Exposure Limits

No information available.

Canada

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

CAS# 100-52-7 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 100-52-7: OEL-HUNGARY:TWA 5 mg/m3;STEL 10 mg/m3 OEL-RUSSIA:STEL 5 mg/m3

US FEDERAL

TSCA

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

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

CHEMLABS™
62/A-2 2nd Stage, Industrial Suburb
Ashokpuram School Road, Yeshwanthpur
Bangalore-560 022, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827