



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : B 11479
Product Name : Benzaldehyde

Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : Bitter almond oil
CAS-No : 100-52-7
Ec-Index No. : 603-057-00-5
Molar Mass : 106.13
EC-No. : 202-860-4
Molecular Formula : C_7H_6O

3. HAZARDS IDENTIFICATION : Harmful by inhalation and if swallowed.

4. FIRST AID MEASURES

After inhalation: fresh air. Consult doctor if feeling unwell.

After skin contact: wash off with plenty of water.



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After eye contact: rinse out with plenty of water With eyelids held open. Summon eye specialist.

After swallowing: Induce vomiting. Make victim drink plenty of water.

Summon doctor.

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media: powder ,foam, CO₂

Special risks: Combustible. Take measures to prevent electrostatic charging.

Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire fighting: Do not stay in dangerous zone without suitable Chemical protection clothing and self-contained breathing apparatus

Other information: Prevent fire fighting water entering from surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

Do not inhale vapours / aerosols . Avoid Substance contact.

Procedures for cleaning / absorption:

Take up with liquid absorbent material (Eg chemizorb). Forward for disposal. Clean up affected area.

Environmental protection measures: Do not allow to enter sewage system.



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7. HANDLING AND STORAGE

Handling: No further requirements

Storage: Tightly closed. In a well ventilated place , away from the sources of ignition and heat. Storage temperature : no restrictions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection: required when vapours /

Aerosols are generated. Filter A (acc. to DIN 3181) for vapours of organic compounds.

Eye protection: required

Hand protection: required

Protective clothing should be selected for the Working place depending on concentration and Quantity of the hazardous substance handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene: Change contaminated clothing. Application of skin protective barrier cream recommended. Wash hands after working with substance. Under no circumstances eat or drink at work place.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	liquid
Colour	:	colourless to slightly yellowish
Odour	:	bitter almond like.
Melting temperature	:	>- 26 °C
Boiling temperature	:	178-180 °C
PHvalue	:	~5.9
Ignition temperature	:	190 °C
Flash point	:	64 °C
Explosion limits lower	:	1.4 Vol%
Upper	:	8.5 Vol%
Relative vapour density	:	Not available
Density (20 ⁰ C)	:	1.05 g/cm ³
Solubility in		
water (20 ⁰ C)	:	3.3 g/l
ethanol(20 ⁰ C)	:	soluble

10. STABILITY AND REACTIVITY

Conditions to be avoided: strong heating.

Substance to be avoided: bases, alkali metals, Al, iron, performic acid, phenols, air, oxygen, oxidising agent.

Hazardous decomposition products: no information available

Further information: sensitive to air, light sensitive; spontaneously inflammable;

incompatible with various plastics unsuitable working materials: aluminium.

Explosible with air in a vaporous/ gaseous state when heated.



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11. TOXICOLOGICAL INFORMATION

Acute Toxicity LD₅₀(oral, rat): 1300 mg/kg

Further toxicological information:

After inhalation: Irritation symptoms in the respiratory tract. narcosis

After eye contact: irritant effect

After swallowing: we have no description of any toxic symptoms

After skin contact: Irritations, dermatitis. In animal experiments: no sensitising effect.

Subacute to chronic toxicity: Sensitization test (guinea pig): negative

Non carcinogenic in animal experiments.

Bacterial mutagenicity: negative

No impairments of reproductive performance in animal experiments.

Further data: the product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Biological degradation : easily eliminable

Behaviour in environmental compartments:

Low bioaccumulation potential

Ecotoxic effects:

Biologic effects: Forms toxic mixtures in water, dilution measures notwithstanding.



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Fish toxicity;;
Bacterial toxicity;;
Algeal toxicity;;
Protozoa: E.sulcatum EC₀ : 1 mg/l;
Daphnia toxicity;;
P promelas LC₅₀ : 460 mg/l

Further ecologic data: Do not allow to enter waters, waste water, or soil

13. DISPOSAL METHOD

Product : There are no uniform EC regulations for

The disposal of chemicals or residues. Chemical residues generally count as special waste.

The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations . We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

Packaging : Disposal in compliance with official Regulations. Handle contaminated packaging as In the same way as the substance itself . If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled

14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class: 9 Number and letter:34c

ADR/RID class : 9 Number and letter:34c

Name of material : BENZALDEHYDE

River transport AND/ADNR: Not examined



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Sea transport IMDG : IMDG class:9 UN –No.:1990 Packaging group: III
Ems : 6.1-02 MFAG: 300

Correct technical name: BENZALDEHYDE

Air transport

ICAO-TI and IATA-DGR: ICAO/IATA class: 9 UN/ID-No.: 1990

Packaging group: III Correct technical name: BENZALDEHYDE

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xn Harmful

R- Phrases : 22 Harmful if swallowed.

S-phrases : 24 Avoid contact with skin

Water pollution class : 2 (polluting substance)

16. OTHER INFORMATION

Reason for alteration

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
