

# MATERIAL SAFETY DATA SHEET (SDS/MSDS)

## **BENZALDEHYDE 98.5% EXTRA PURE**

CAS-No.: 100-52-7

Product Code: 00365

Molecular Formula:  $C_6H_5CHO$

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#### **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

##### **1.1. Product identifier**

Product form	:	Substance
Trade name	:	Benzaldehyde 98.5% Extra Pure
EC-No.	:	202-860-4
CAS No	:	100-52-7
Synonyms	:	Artificial essential oil of almond

##### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

###### **1.2.1. Relevant identified uses**

Industrial/Professional use spec : Industrial For professional use only

###### **1.2.2. Uses advised against**

No additional information available

##### **1.3. Details of the supplier of the safety data sheet**

Company : Chemnovo Synthesis Pvt Ltd.  
N-226 Near Kumbhavali Naka  
Tarapur MIDC, Boisar-401 506  
Palghar, Maharashtra  
Telephone : +91 7400096089  
Email: export@chemnovo.in

##### **1.4. Emergency telephone number**

Emergency number : + 91 7400096089 (9:00am – 6:00 pm)

#### **SECTION 2: Hazards identification**

##### **2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H302

Category 4

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R22

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

##### **2.2. Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

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GHS07

Signal word (CLP) : Warning  
Hazard statements (CLP) : H302 – Harmful if swallowed.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : Benzaldehyde 98.5% Extra Pure  
CAS-No. : 100-52-7  
EC-No. : 202-860-4

Full text of R- and H-statements: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Take off contaminated clothing. Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after ingestion : Harmful if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide

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(Co<sub>2</sub>).

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighter

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place. Store in a well-ventilated place.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses



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Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	Wear appropriate mask

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Molecular mass	:	106.12 g/mol
Colour	:	Pale yellow.
Odour	:	characteristic odor.
Odour threshold	:	No data available
pH	:	5.9
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	-26 °C
Freezing point	:	No data available
Boiling point	:	177 - 179 °C
Flash point	:	64 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	1 mm Hg at 260C
Relative vapour density at 20 °C	:	3.66
Relative density	:	No data available
Density	:	1.05 g/cm <sup>3</sup>
Solubility	:	Water: Slightly soluble in water
Log Pow	:	1.5
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	0.014 - 0.085 vol %

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

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Direct sunlight. Overheating. Open flame. Heat. Sparks.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	:	Harmful if swallowed.
Skin corrosion/irritation	:	Not classified
pH	:	5.9
Serious eye damage/irritation	:	Not classified
pH	:	5.9
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

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Log Pow	1.5

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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Product/Packaging disposal : Dispose of contents/container to hazardous or special waste recommendations collection point, in accordance with local, regional, national and/or international regulation.

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / AND

**14.1. UN number**

UN-No. (ADR)	:	1990
UN-No. (IMDG)	:	1990
UN-No.(IATA)	:	1990
UN-No.(AND)	:	1990
UN-No. (RID)	:	1990

**14.2. UN proper shipping name**

Proper Shipping Name (ADR)	:	BENZALDEHYDE
Proper Shipping Name (IMDG)	:	BENZALDEHYDE
Proper Shipping Name (IATA)	:	BENZALDEHYDE
Proper Shipping Name (ADN)	:	BENZALDEHYDE
Proper Shipping Name (RID)	:	BENZALDEHYDE
Transport document description (ADR)	:	UN 1990 BENZALDEHYDE, 9, III, (E)
Transport document description (IMDG)	:	UN 1990 BENZALDEHYDE, 9, III
Transport document description (IATA)	:	UN 1990 BENZALDEHYDE, 9, III
Transport document description (ADN)	:	UN 1990 BENZALDEHYDE, 9, III
Transport document description (RID)	:	UN 1990 BENZALDEHYDE, 9, III

**14.3. Transport hazard class(es)**

ADR

Transport hazard class(es) (ADR)	:	9
Danger labels (ADR)	:	9
	:	



IMDG

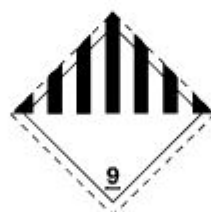
Transport hazard class(es) (IMDG)	:	9
Danger labels (IMDG)	:	9

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****BENZALDEHYDE 98.5% EXTRA PURE****CAS-No.: 100-52-7****IATA**

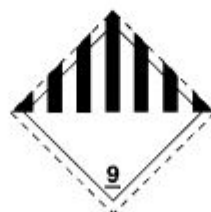
Transport hazard class(es) (IATA) : 9  
Hazard labels (IATA) : 9  
:

**AND**

Transport hazard class(es) (ADN) : 9  
Danger labels (AND) : 9  
:

**RID**

Transport hazard class(es) (RID) : 9  
Danger labels (RID) : 9  
:

**14.4. Packing group**

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : III



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Packing group (RID) : III

**14.5. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

**14.6. Special precautions for user**

– Overland transport

Classification code (ADR) : M11

Limited quantities (ADR) : 5l

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : Mp15

Portable tank and bulk container : T2

instructions (ADR)

Portable tank and bulk container special

provisions (ADR) : Tp1

Tank code (ADR) : LGBV

Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage – Packages

(ADR) : V12

Hazard identification number : 90

(Kemler No.)

Orange plates :

**90****1990**

Tunnel restriction code (ADR) : E

EAC code : 2Z

– Transport by sea

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, Lp01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T2

Tank special provisions (IMDG) : Tp1

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-A

Stowage category (IMDG) : A

MFAG-No : 129

– Air transport

PCA Excepted quantities (IATA) : E1

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PCA Limited quantities (IATA)	:	Y964
PCA limited quantity max net quantity (IATA)	:	30kgG
PCA packing instructions (IATA)	:	964
PCA max net quantity (IATA)	:	100L
CAO packing instructions (IATA)	:	964
CAO max net quantity (IATA)	:	220L
ERG code (IATA)	:	9N
- Inland waterway transport		
Classification code (ADN)	:	M11
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Equipment required (ADN)	:	PP
Number of blue cones/lights (ADN)	:	0
- Rail transport		
Classification code (RID)	:	M11
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Mixed packing provisions (RID)	:	Mp15
Portable tank and bulk container instructions (RID)	:	T2
Portable tank and bulk container special provisions (RID)	:	Tp1
Tank codes for RID tanks (RID)	:	LGBV
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W12
Special provisions for carriage – Loading, unloading and handling (RID)	:	Cw31
Colis express (express parcels) (RID)	:	Ce8
Hazard identification number (RID)	:	90

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Benzaldehyde 98.5% Extra Pure is not on the REACH Candidate List

Benzaldehyde 98.5% Extra Pure is not on the REACH Annex XIV List

**15.1.2. National regulations****Germany**

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Reference to AwSV	:	Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV; ID No. 26)
12th Ordinance Implementing the Federal Immission Control Act – 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
<b>Netherlands</b>		
SZW-lijst van kankerverwekkende stoffen		The substance is not listed
SZW-lijst van mutagene stoffen	:	The substance is not listed
NIET-limitatieve lijst van voor de	:	The substance is not listed
voortplanting giftige stoffen – Borstvoeding		
NIET-limitatieve lijst van voor de	:	The substance is not listed
voortplanting giftige stoffen – Vruchtbaarheid		
NIET-limitatieve lijst van voor de	:	The substance is not listed
voortplanting giftige stoffen – Ontwikkeling		
<b>Denmark</b>		
Class for fire hazard	:	Class III-1
Store unit	:	50 liter
Classification remarks	:	Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
H302	Harmful if swallowed.
R22	Harmful if swallowed
Xn	Harmful

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.chemnovo.in](http://www.chemnovo.in) for additional terms and conditions of sale.

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