

MATERIAL SAFETY DATA SHEET (MSDS)**BENZALDEHYDE AR****1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

| | |
|-------------------------------|----------------------------------------------------------------------------------|
| Trade name | : BENZALDEHYDE AR |
| Product code | : SS0112900500 |
| Identification of the product | : Benzaldehyde CAS No :100-52-7 EC No :202-860-4 Annex No :605-012-00-5 |
| Chemical formula | : C7H6O / (CHCHCHCHCHC(CHO)) |

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

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

| | |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company identification | SUVCHEM Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95 Email ID: info@suvchem.com/care@suvchem.com |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD**2.1. Classification of the substance or mixture****Classification EC 67/548 or EC 1999/45**

Classification : Xn; R22

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

2.2. Label elements**Labelling EC 67/548 or EC 1999/45**

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2. Hazards identification -DSD (continued)

Symbol(s)



Symbol(s)

: Xn : Harmful

R Phrase(s)

: R22 : Harmful if swallowed.

S Phrase(s)

 : S2 : Keep out of the reach of children.
 S24 : Avoid contact with skin.

Contains

: Benzaldehyde

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Warning

Hazard statements

: H302 : Harmful if swallowed.

Precautionary statements

• General

 : P102: Keep out of reach of children.
 P103: Read label before use.
 P101: If medical advice is needed, have product container or label at hand.

• Prevention

 : P264: Wash thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.

• Response

: P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.

• Disposal considerations

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Contains

: Benzaldehyde

2.3. Other hazards

Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation

 : Benzaldehyde
 CAS No :100-52-7
 EC No :202-860-4
 Annex No :605-012-00-5
 Substance.

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

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3. Composition/information on ingredients (continued)

| Substance name | Contents | CAS No | EC No | Annex No | REACH Ref. | Classification |
|----------------|----------|----------|-----------|--------------|------------|---------------------------------------|
| Benzaldehyde | 100 % | 100-52-7 | 202-860-4 | 605-012-00-5 | --- | Xn; R22 Acute Tox. 4 (oral) _ H302 |

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | : Assure fresh air breathing. Allow the victim to rest. |
| Skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. |
| Eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. |
| Ingestion | : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. |

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

Symptoms relating to use : Swallowing a small quantity of this material will result in serious health hazard.

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

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media

| | |
|---------------------------------------|----------------------------------------------------------|
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| Surrounding fires | : Use water spray or fog for cooling exposed containers. |

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

| | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------|
| Protection against fire | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Special procedures | : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. |

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6. Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.
Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust.
Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage
7.1. Precautions for safe handling

Handling : Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

8. Exposure controls/personal protection
8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

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8. Exposure controls/personal protection (continued)

- Respiratory protection : Wear approved mask.
- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

| | |
|----------------------------------------|-----------------------|
| Physical state at 20 °C | : Liquid. |
| Colour | : Pale yellow |
| Odour | : characteristic odor |
| Odour threshold | : No data available. |
| pH value | : Not applicable. |
| Melting point [°C] | : -26 °C |
| Decomposition point [°C] | : N/A |
| Critical temperature [°C] | : N/A |
| Auto-ignition temperature [°C] | : N/A |
| Flammability (solid, gas) | : N/A |
| Flash point [°C] | : 64 °C |
| Boiling point [°C] | : 177 - 179 °C |
| Initial boiling point [°C] | : 177 °C |
| Final boiling point [°C] | : 179 °C |
| Evaporation rate | : N/A |
| Vapour pressure [20°C] | : N/A |
| Vapour pressure mm/Hg | : 1 mm Hg @ 260C |
| Vapour density | : 3,66 |
| Density [g/cm ³] | : 1,05 |
| Relative density, gas (air=1) | : N/A |
| Relative density, liquid (water=1) | : N/A |
| Solubility in water [% weight] | : Slightly soluble in |
| Solubility in water | : N/A |
| Log Pow octanol / water at 20°C | : No data available. |
| Solubility | : 5,9 |
| Viscosity at 40°C [mm ² /s] | : N/A |

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9. Physical and chemical properties (continued)
9.2. Other information

| | |
|------------------------------|----------------------|
| Explosive properties | : N/A |
| Explosion limits - upper [%] | : 8,50% |
| Explosion limits - lower [%] | : 1,40% |
| Oxidising properties | : No data available. |

10. Stability and reactivity
10.1. Reactivity

| | |
|------------|--------------------|
| Reactivity | : Not established. |
|------------|--------------------|

10.2. Chemical stability

| | |
|--------------------|------------------------------------------------|
| Chemical stability | : Stable under recommended storage conditions. |
|--------------------|------------------------------------------------|

10.3. Possibility of hazardous reactions

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|---------------------|--------------------|
| Hazardous reactions | : Not established. |
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10.4. Conditions to avoid

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|---------------------|--------------------------------------------------------|
| Conditions to avoid | : Direct sunlight. Extremely high or low temperatures. |
|---------------------|--------------------------------------------------------|

10.5. Incompatible materials

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|--------------------|-------------------------------|
| Materials to avoid | : Strong acids. Strong bases. |
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10.6. Hazardous decomposition products

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|----------------------------------|-------------------------------------------|
| Hazardous decomposition products | : Fumes. Carbon monoxide. Carbon dioxide. |
|----------------------------------|-------------------------------------------|

11. Toxicological information
11.1. Information on toxicological effects

| | |
|----------------|---------------------------------------------------------------------|
| Acute toxicity | |
| • Inhalation | : Based on available data, the classification criteria are not met. |
| • Dermal | : Based on available data, the classification criteria are not met. |
| • Ingestion | : Harmful if swallowed. |
| Corrosion | : Based on available data, the classification criteria are not met. |

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11. Toxicological information (continued)

| | |
|-------------------------------|---------------------------------------------------------------------|
| Irritation | : Based on available data, the classification criteria are not met. |
| Sensitization | : Based on available data, the classification criteria are not met. |
| Mutagenicity | : Based on available data, the classification criteria are not met. |
| Carcinogenicity | : Based on available data, the classification criteria are not met. |
| Toxic for reproduction | : Based on available data, the classification criteria are not met. |
| STOT-single exposure | : Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | : Based on available data, the classification criteria are not met. |
| Aspiration hazard | : Based on available data, the classification criteria are not met. |

12. Ecological information
12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations
13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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14. Transport information
14.1. Land transport (ADR-RID)

Proper shipping name : BENZALDEHYDE
 UN N° : 1990
 H.I. nr : 90
 ADR - Class : 9
 Labelling - Transport : 9 : Miscellaneous dangerous substances and articles.



ADR - Classification code : M11
 ADR - Group : III
 ADR - Packing instructions : P001 R001 LP001
 ADR - Limited Quantity : 5 L
 ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : BENZALDEHYDE
 UN N° : 1990
 IMO-IMDG - Class or division : 9 : Miscellaneous dangerous substances and articles.
 IMO-IMDG - Packing group : III
 IMO-IMDG - Packing instructions : P001 LP01
 IMO-IMDG - Limited quantities : 5 L
 IMO-IMDG - Marine pollution : No
 EMS-Nr : F-A S-A

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : BENZALDEHYDE
 UN N° : 1990
 IATA - Class or division : 9 : Miscellaneous dangerous substances and articles.
 IATA - Packing group : III
 IATA - Passenger and Cargo Aircraft : ALLOWED
 - Passenger and Cargo - Packing instruction : 964

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14. Transport information (continued)

| | |
|--------------------------------------------------|-----------|
| - Passenger and Cargo - Maximum Quantity/Packing | : 100 L |
| IATA - Cargo only | : ALLOWED |
| - Cargo only - Packing instruction | : 964 |
| - Cargo only - Maximum Quantity/Packing | : 220 L |
| IATA - Limited Quantities | : 30 kg G |
| ERG-Nr | : 9N |

15. Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | : Ensure all national/local regulations are observed. |
| REACH Restrictions - Annex XVII | : The components of this product are not subject to restrictions. |
| REACH Authorisation - Annex XIV | : The components of this product are not subject to authorization. |

15.2. Chemical Safety Assessment

| | |
|----------------------------|--------------------------------|
| Chemical Safety Assessment | : It has not been carried out. |
|----------------------------|--------------------------------|

16. Other information

| | |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Revision | : Revision - See : * |
| Abbreviations and acronyms | : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative |
| Sources of key data used | : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 |
| List of relevant R phrases (heading 3) | : R22 : Harmful if swallowed. |
| List of full text of H-statements in section 3 | : H302 : Harmful if swallowed. |
| Further information | : None. |

MATERIAL SAFETY DATA SHEET (MSDS)

BENZALDEHYDE AR

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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