

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
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MATERIAL SAFETY DATA SHEET (MSDS)

FORMALDEHYDE SOLUTION 37 - 41 % AR

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : FORMALDEHYDE SOLUTION 37 - 41 % AR

Product code : SM0051302500

Identification of the product : Formaldehyde
CAS No: 50-00-0
EC No :200-001-8
Annex No :605-001-00-5

Chemical formula : CH₂O

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 : Carc. Cat. 3; R40
T; R23/24/25
C; R34
Xi; R37
R43

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

Health hazards : Carcinogenicity - Category 2 - Warning (CLP : Carc. 2) H351
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
Category 3 - Warning (CLP : STOT SE 3) H335
Acute toxicity, dermal - Category 2 - Danger (CLP : Acute Tox. 2) H310
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317

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2. Hazards identification -DSD (continued)

Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318
 Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314
 Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301

2.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s)

Symbol(s)

: T : Toxic

R Phrase(s)

: R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.
 R34 : Causes burns.
 R37 : Irritating to respiratory system.
 R40 : Limited evidence of a carcinogenic effect.
 R43 : May cause sensitization by skin contact.

S Phrase(s)

: S1/2 : Keep locked up and out of reach of children.
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
 S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
 S51 : Use only in well-ventilated areas.

Contains

: Formaldehyde

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

: H310 : Fatal in contact with skin.
 H314 : Causes severe skin burns and eye damage.
 H301 : Toxic if swallowed.
 H331 : Toxic if inhaled.
 H351 : Suspected of causing cancer.
 H317 : May cause an allergic skin reaction.
 H335 : May cause respiratory irritation.

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.

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2. Hazards identification -DSD (continued)

- Prevention**
 - P201: Obtain special instructions before use.
 - P280: Wear protective gloves, protective clothing, eye protection, face protection.
 - P271: Use only outdoors or in a well-ventilated area.
 - P260: Do not breathe dust, fume, gas, mist, vapours, spray.
 - P264: Wash thoroughly after handling.
 - P270: Do not eat, drink or smoke when using this product.
 - P272: Contaminated work clothing should not be allowed out of the workplace.
 - Response**
 - P302+P352: IF ON SKIN : Wash with plenty of soap and water.
 - P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.
 - P308+P313: If exposed or concerned : get medical advice.
 - P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
 - P302+P350: IF ON SKIN : Gently wash with plenty of soap and water.
 - P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
 - P333+P313: If skin irritation or rash occurs : Get medical advice.
 - P363: Wash contaminated clothing before reuse.
 - P361: Remove immediately all contaminated clothing.
 - Storage**
 - P403+P233: Store in well-ventilated place. Keep container tightly closed.
 - P405: Store locked up.
 - 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.
 - 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** : Formaldehyde

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 : Formaldehyde

EC No :200-001-8
Annex No :605-001-00-5
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Formaldehyde	100 %	50-00-0	200-001-8	605-001-00-5	----	Carc. Cat. 3; R40 T; R23/24/25 C; R34 Xi; R37 R43 Acute Tox. 2 (skin) _ H310 Acute Tox. 3 (inhal) _ H331 Acute Tox. 3 (oral) _ H301 Skin Corr. 1B _ H314

MATERIAL SAFETY DATA SHEET (MSDS)

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3. Composition/information on ingredients (continued)

Eye Dam 1 _ H318
Carc. 2 _ H351
STOT SE 3 _ H335
Skin Sens. 1 _ H317

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** : Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing. Get medical advice. Specific treatment (see on this label). If skin irritation or rash occurs : Wash with plenty of soap and water.
- Eye contact** : Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Ingestion** : Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Rinse mouth. Do NOT induce vomiting.

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

- Symptoms relating to use** : Suspected of causing cancer.
Fatal in contact with skin.
Causes severe skin burns and eye damage.
Danger of serious damage to health by prolonged exposure through inhalation.
May cause an allergic skin reaction. May cause respiratory irritation.
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

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5. Fire-fighting measures (continued)

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.
Thermal decomposition generates : Corrosive vapours.

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.

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 : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

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. Do not get in eyes, on skin, or on clothing. Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust, fume, gas, mist, vapours, spray. Wash contaminated clothing before reuse.

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

Special precautions : Avoid breathing dust, fume, gas, mist, vapours, spray.

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7. Handling and storage (continued)

7.2. Conditions for safe storage, including any incompatibilities

Storage	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.
Storage regulation	: Comply with applicable regulations.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s)	: None.
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8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
• Hand protection	: Wear protective gloves.
• Skin protection	: Wear suitable protective clothing.
• Eye protection	: Chemical goggles or face shield.
• Others	: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits	: No data available.
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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Clear Colorles
Odour	: Pungent
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -150C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 300 °C
Flammability (solid, gas)	: N/A

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9. Physical and chemical properties (continued)

Flash point [°C]	: 64 °C
Boiling point [°C]	: 96°C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 1.3 mm Hg @ 20°C
Vapour pressure mm/Hg	: 1.3 mm Hg @ 20°C
Vapour density	: 1,04
Density [g/cm ³]	: 1,08
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Infinitely soluble
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 2.8
Viscosity at 40°C [mm ² /s]	: N/A

9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: 73%
Explosion limits - lower [%]	: 7%
Oxidising properties	: No data available.

10. Stability and reactivity
10.1. Reactivity

Reactivity	: Not established.
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10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
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10.4. Conditions to avoid

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
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10. Stability and reactivity (continued)

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.
 Thermal decomposition generates : Corrosive vapours.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

- Inhalation : Toxic if inhaled.
- Dermal : Fatal in contact with skin.
- Ingestion : Toxic if swallowed.

Corrosion

: Causes severe skin burns and eye damage.
 Causes serious eye damage.

Irritation

: May cause respiratory irritation.

Sensitization

: May cause an allergic skin reaction.

Mutagenicity

: Based on available data, the classification criteria are not met.

Carcinogenicity

: Suspected of causing cancer.

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.

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12. Ecological information (continued)
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.

Special precautions : Hazardous waste due to toxicity.

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

Proper shipping name : FORMALDEHYDE SOLUTION with not less than 25% formaldehyde
 UN N° : 2209
 H.I. nr : 80
 ADR - Class : 8
 Labelling - Transport : 8 : Corrosive substance.



ADR - Classification code : C9
 ADR - Group : III
 ADR - Packing instructions : P001 R001 LP001
 ADR - Limited Quantity : 5 L

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14. Transport information (continued)

ADR - Tunnel code : E : Passage forbidden through tunnels of category E.


14.2. Sea transport (IMDG) [English only]

Proper shipping name : FORMALDEHYDE SOLUTION with not less than 25% formaldehyde
 UN N° : 2209
 IMO-IMDG - Class or division : 8 : Corrosive substance.
 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-B

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

Proper shipping name : FORMALDEHYDE SOLUTION with not less than 25% formaldehyde
 UN N° : 2209
 IATA - Class or division : 8 : Corrosive substance.
 IATA - Packing group : III
 IATA - Passenger and Cargo Aircraft : ALLOWED
 - Passenger and Cargo - Packing instruction : 852
 - Passenger and Cargo - Maximum Quantity/Packing : 5 L
 IATA - Cargo only : ALLOWED
 - Cargo only - Packing instruction : 856
 - Cargo only - Maximum Quantity/Packing : 60 L
 IATA - Limited Quantities : 1 L
 ERG-Nr : 8i

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.

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

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- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** 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.

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