



Serving Scientific Community
Since 1985



TECHNO PHARMCHEM

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
Website : www.technopharmchem.com

FORMALDEHYDE SOLUTION

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

1.1. Product identifier

Trade name : FORMALDEHYDE SOLUTION

Product code: 38060, 38235

Identification of the product: Formaldehyde

CAS No : 50-00-0

EC No : 200-001-8

Index No: 605-001-00-5

Chemical formula: H.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: Techno Pharmchem

Contact: +91 11 23646422 / info@technopharmchem.com

1.4. Emergency telephone number

Phone: + 91 11 23646422 (9:30am - 5:30 pm) [Office hours]

2. Hazards identification

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

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

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.

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| | |
|---------------------------|---|
| Prevention: | <p>P101: If medical advice is needed, have product container or label at hand.</p> <p>P201: Obtain special instructions before use.</p> <p>P280: Wear protective gloves, protective clothing, eye protection, face protection.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P260: Do not breathe dust, fume, gas, mist, vapours, spray.</p> <p>P264: Wash thoroughly after handling.</p> <p>P270: Do not eat, drink or smoke when using this product.</p> <p>P272: Contaminated work clothing should not be allowed out of the workplace.</p> |
| Response: | <p>P302+P352: IF ON SKIN : Wash with plenty of soap and water.</p> <p>P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.</p> <p>P308+P313: If exposed or concerned : get medical advice.</p> <p>P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.</p> <p>P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P333+P313: If skin irritation or rash occurs: Get medical advice.</p> <p>P363: Wash contaminated clothing before reuse.</p> <p>P361: Remove immediately all contaminated clothing.</p> |
| Storage: | <p>P403+P233: Store in well-ventilated place. Keep container tightly closed.</p> <p>P405: Store locked up.</p> |
| Disposal considerations : | <p>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.</p> <p>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.</p> |
| Contains: | Formaldehyde |
| <u>2.3. Other hazards</u> | |
| 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. |



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3. Composition/information on ingredients

Substance / Preparation : Formaldehyde
CAS No : 50-00-0
EC No : 200-001-8
Index No : 605-001-00-5

Substance.

| Substance name | Contents | CAS No | EC No | Index No |
|----------------|----------|---------|-----------|--------------|
| Formaldehyde | 100% | 50-00-0 | 200-001-8 | 605-001-00-5 |

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 doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact : Immediately call a 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 doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion : Immediately call a 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)



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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 : Carbon Oxide
Thermal decomposition generates : Corrosive vapors

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 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 outdoor or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust, fume, gas, mist, vapors, spray. Wash contaminated clothing before reuse.



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Technical protective measures : Provide good ventilation in process area to prevent formation of vapors
Special precautions : Avoid breathing dust, fume, gas, mist, vapors, spray

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.

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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Form : Liquid
Colour : Clear
Odour : Pungent
Odour Threshold : No data available
pH : No data available
Melting point : -15°C
Initial boiling point and boiling point : No data available
Flash point : 64 °C - closed cup
Boiling point : 96°C
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Upper/lower Upper explosion limit : 73 %(V) / 7 %(V)
Vapour pressure (20°C) : 1.3mm Hg @20°C

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| | |
|---------------------------------------|------------------------------------|
| Vapour density | : 1.04 - (Air = 1.0) |
| Relative density | : 1.016 g/cm ³ at 20 °C |
| Water solubility | : No data available |
| Partition coefficient n-octanol/water | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Relative vapour density | : 1.04 (Air = 1.0) |

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

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Heat, Flames, Direct sunlight ; extreme high & low temperatures

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 vapors.

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.

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14.5 Environmental hazards

ADR/RID: No

IMDG Marine pollutant: No IATA: No

14.6 Special precautions for user

No data available

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.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Product Use : Laboratory Reagent for Educational & Research Purposes