

1 PRODUCT & COMPANY IDENTIFICATION

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|---|---|
| Product Name: Formaldehyde Solution | Supplier: ASES CHEMICAL WORKS. |
| Synonyms: Formalin | Address: Brahm Bagh, Jalori Gate Jodhpur - 342001 Rajasthan-India |
| CAS Number: 50-00-0 | Phone: +91-9636889954 |
| Formula: CH ₂ O | Web: www.ases.in |
| Product Form: Mixture | Email : ecom@ases.in |
| Product Use: Industrial For professional use only. | |

2 HAZARDS IDENTIFICATION

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

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|--|------|
| Acute toxicity (oral), Category 3 | H301 |
| Acute toxicity (dermal), Category 3 | H311 |
| Skin corrosion/irritation, Category 1, Sub-Category 1B | H314 |
| Skin sensitisation, Category 1 | H317 |
| Germ cell mutagenicity, Category 2 | H341 |
| Carcinogenicity, Category 1B | H350 |
| Specific target organ toxicity – single exposure, Category 1 | H370 |

Adverse physicochemical, human health and environmental effects

May cause cancer. Suspected of causing genetic defects. Causes damage to organs. Toxic in contact with skin. Toxic if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Label elements

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

Hazard pictograms (CLP) :



Signal word : Warning

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

Precautionary statements :
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor

Other hazards : No additional information available

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------|---|---------|---|
| Water | (CAS-No.) 7732-18-5 (EC-No.) 231-791-2 | 50 - 55 | Not classified |
| Formaldehyde | (CAS-No.) 50-00-0 (EC-No.) 200- 001-8 (EC Index-No.) 605-001-00-5 | 37 - 38 | Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Carc. 2, H351 STOT SE 3, H335 Skin Sens. 1, H317 |
| Methanol | (CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X | 8 - 12 | Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 1, H370 |

4 FIRST AID MEASURES

General: Treat symptomatically

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.

Skin Contact: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

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.

Ingestion: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Call a poison centre or a doctor if you feel unwell

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray. Foam. Dry powder. Carbon dioxide.

Non-suitable extinguishing media: Do not use a heavy water stream.

Special protective equipment & precautions: Do not attempt to take action without suitable protective equipment.

Hazardous combustion products: Toxic fumes may be released.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area. Stop release.

Environmental precautions: Avoid release to the environment.

Methods for cleaning: 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.

7 HANDLING & STORAGE

Handling: Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Obtain special instructions before use.

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

Storage: Store in a well-ventilated place. Keep container tightly closed. Comply with applicable regulations.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls: Ensure good ventilation of the work station.

Personal protective equipment: Wear recommended personal protective equipment.

Eye protection : Chemical goggles or safety glasses

Hand protection: Protective gloves

Skin and body protection: Wear a mask

Respiratory protection: Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

MATERIAL SAFETY DATA SHEET

FORMALDEHYDE SOLUTION

9 PHYSICAL AND CHEMICAL PROPERTIES

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|-----------------------------|-----------------|---------------------------|---------------------------------|
| Physical state: | Liquid | pH: | 2.8 – 4 at 20 °C |
| Colour: | Colourless. | Viscosity, kinematic: | 5.156 mm ² /s |
| Appearance : | Clear liquid. | Viscosity, dynamic: | 5.62 mPa·s at 25 °C |
| Odour: | Pungent. | Solubility: | Water: Infinitely miscible |
| Odour threshold: | 0.027 – 1.9 ppm | Partition coefficient : | Not available |
| Melting point: | Not applicable | n-octanol/water(Log Kow) | |
| Freezing point: | < -15 °C | Vapour pressure: | 1.3 mm Hg @ 20°C |
| Boiling point: | 93 – 96 °C | Vapour pressure at 50°C: | Not available |
| Flammability: | Non-flammable. | Density: | 1.09 g/cm ³ at 20 °C |
| Explosion limit: | Not available | Relative density: | Not available |
| Flash point: | 62 °C | Relative vapour density: | 1.04 @20°C |
| Auto-ignition temperature: | ≈ 300 °C | Particle characteristics: | Not applicable |
| Decomposition temperature : | Not available | Particle size : | Not available |

10 STABILITY AND REACTIVITY

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| Reactivity: | The product is non-reactive under normal conditions of use, storage and transport. |
| Chemical stability: | Stable under recommended storage conditions. |
| Conditions to Avoid: | Direct sunlight. Overheating. Open flame. Heat. |
| Substance to be avoided: | No additional information available |
| Hazardous Reaction: | No dangerous reactions known under normal conditions of use. |

11 TOXICOLOGICAL INFORMATION

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| Acute toxicity : | Dermal: Fatal in contact with skin.Toxic if inhaled. Toxic if swallowed. ATE CLP (oral) 100 mg/kg bodyweight ATE CLP (dermal) 50 mg/kg bodyweight ATE CLP (gases) 700 ppmv/4h ATE CLP (vapours) 3 mg/l/4h ATE CLP (dust,mist) 0.5 mg/l/4h |
| Skin corrosion/irritation : | Causes severe skin burns and eye damage. pH: 2.8 |
| Serious eye damage/irritation : | Causes serious eye damage. pH: 2.8 |
| Respiratory or skin sensitisation : | May cause an allergic skin reaction |
| Germ cell mutagenicity : | Not classified |
| Carcinogenicity : | Suspected of causing cancer |
| Reproductive toxicity : | Not classified |
| STOT-single exposure : | May cause respiratory irritation |
| STOT-repeated exposure : | Not classified |

12 ECOLOGICAL INFORMATION

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|--------------------------------------|-------------------------------------|
| Toxicity | No additional information available |
| Persistence and Degradability | No additional information available |
| Bio-accumulative Potential | No additional information available |
| Mobility in Soil | No additional information available |
| Other Adverse Effects | No additional information available |

MATERIAL SAFETY DATA SHEET

FORMALDEHYDE SOLUTION


13 DISPOSAL CONSIDERATIONS

Advice on Disposal and Packaging

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

14 TRANSPORT INFORMATION

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

UN number or ID number ADR / IMDG / IATA / ADN / RID : 2209
UN proper shipping name ADR / IMDG / IATA / ADN / RID : FORMALDEHYDE SOLUTION
Transport document description ADR / IMDG / IATA / ADN / RID : UN 2209, FORMALDEHYDE SOLUTION, 8, III
Transport hazard class(es) ADR / IMDG / IATA / ADN / RID : 8
Danger labels ADR / IMDG / IATA / ADN / RID : 8 
Packing Group ADR / IMDG / IATA / ADN / RID : III

Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations : Contains no REACH substances with Annex XVII restrictions.
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

National regulations

Germany : Water hazard class (WGK) . WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
12th Ordinance Implementing the Federal Emission Control Act - 12.BImSchV : Is not subject of the 12.
BImSchV (Hazardous Incident Ordinance).
Denmark: 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
National Regulations: Young people below the age of 18 years are not allowed to use the product Pregnant/breast feeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Chemical Safety Assessment

No chemical safety assessment has been carried out

16 OTHER INFORMATION

Disclaimer & Caution

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and ASES CHEMICAL WORKS assume no liability resulting from its use.