


Material Safety Data Sheet	
FORMALDEHYDE SOLUTION LR (37-41% w/v)	VERSION : 04 DATE OF ISSUE : 01-08-2023 SUPERSEDES : 03
Product Code : 14560	Page 1 of 9

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

1.1. Product identifier

Trade name : FORMALDEHYDE SOLUTION LR (37-41% w/v)
Product code : 14560
CAS No. : 50-00-0
Identification of the product : Formaldehyde

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3. Details of the supplier of the safety data sheet

Company identification : MOLYCHEM
Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor,
Mumbai – 400 002 (INDIA)
Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.
Email : info@molychem.net
Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat
Textile Co.,Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

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; R39

R 43

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

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) :

T : Toxic

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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.

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.
P201: Obtain special instructions before use.

• Prevention :

P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.

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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.

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2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

3.2 Mixtures

Synonyms : Formalin

Formula : CH₂O

Molecular weight : 30.03 g/mol


Substance name	Contents	CAS No
Formaldehyde	>30-<50%	50-00-0
Methanol	>10-<20%	67-56-1

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Substance.

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

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call a doctor immediately (mention methanol ingestion). Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again (approx. 0.3 ml of a 40% alcoholic beverage/kg body weight/hour). Do not attempt to neutralise.

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

The most important known symptoms and effects are described in the labelling (see section 2.2)

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

No data available

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Carbon oxides.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.


5.4 Further information

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Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2. Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®).

Dispose of properly. Clean up affected area.

6.4. Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection.

Wash hands and face after working with substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class

Storage class (TRGS 510): 3: Flammable liquids

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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.

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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

- | | |
|---|--|
| a) Physical state | liquid |
| b) Color | clear |
| c) Odor | pungent |
| d) Melting point/freezing point | No data available |
| e) Initial boiling point and boiling range | 100 °C at 1.013 hPa |
| f) Flammability (solid, gas) | No data available |
| g) Upper/lower flammability or explosive limits | Upper explosion limit: 73 %(V)
Lower explosion limit: 7 %(V) |
| h) Flash point | 56.11 °C - closed cup |
| i) Autoignition temperature | 420 °C |
| j) Decomposition temperature | No data available |
| k) pH | No data available |
| l) Viscosity | Viscosity, kinematic: No data available
Viscosity, dynamic: No data available |
| m) Water solubility | at 20 °C soluble |
| n) Partition coefficient: n-octanol/water | log Pow: 0.35 |
| o) Vapor pressure | 53 hPa at 39 °C |
| p) Density | No data available |
| Relative density | No data available |
| q) Relative vapor density | No data available |
| r) Particle characteristics | No data available |
| s) Explosive properties | Not classified as explosive. |
| t) Oxidizing properties | none |

9.2. Other information


No data available

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10. Stability and reactivity

10.1. Reactivity

Vapor/air-mixtures are explosive at intense warming.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Heating.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

Acute toxicity : Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 2.8

Serious eye damage/irritation : Serious eye damage, category 1, implicit
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 : Causes damage to organs. May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Toxic if swallowed. Fatal in contact with skin.

12. Ecological information

12.1. Toxicity

Mixture

No data available

12.2. Persistence - degradability

No data available

12.3. Bioaccumulative potential


No data available

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12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

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.
Ecology - waste materials : Hazardous waste due to toxicity.

14. Transport information

14.1 UN number

ADR/RID: 2209 IMDG: 2209 IATA: 2209

14.2 UN proper shipping name

ADR/RID: FORMALDEHYDE SOLUTION, FLAMMABLE
IMDG: FORMALDEHYDE SOLUTION, FLAMMABLE
IATA: Formaldehyde solution, flammable

14.3 Transport hazard class(es)

ADR/RID: 3 (8) IMDG: 3 (8) IATA: 3 (8)

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Tunnel restriction code : (D/E)
Further information : No data available

15. Regulatory information

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


Safety, health and environmental : Ensure all national/local regulations are observed.

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regulations/legislation specific for the substance or mixture

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

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

Further information : None.

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

Prepared by: MOLYCHEM (INDIA)

For questions contact: MOLYCHEM

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