

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

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

Trade name : HEXAMINE LR

Product code : H0107500500

Identification of the product : methenamine; hexamethylenetetramine  
CAS No: 100-97-0  
EC No :202-905-8  
Annex No :612-101-00-2

**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 : F; R11  
R43

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

Health hazards : Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317

Physical hazards : Flammable solids - Category 1 - Danger (CLP : Flam. Sol. 1) H228

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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**HEXAMINE LR**
**2. Hazards identification -DSD (continued)**
**Symbol(s)**

**Symbol(s)**

 : F : Highly flammable  
 Xn : Harmful

**R Phrase(s)**

 : R11 : Highly flammable.  
 R43 : May cause sensitization by skin contact.

**S Phrase(s)**

 : S2 : Keep out of the reach of children.  
 S24 : Avoid contact with skin.  
 S37 : Wear suitable gloves.

**Contains**

: methenamine; hexamethylenetetramine

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**

**Signal words**

: Danger

**Hazard statements**

 : H228 : Flammable solid.  
 H317 : May cause an allergic skin reaction.

**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**

 : P240: Ground/bond container and receiving equipment.  
 P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.  
 P210: Keep away from heat, sparks, open flames or hot surfaces. - No smoking.  
 P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 P261: Avoid breathing dust, fume, gas, mist, vapours, spray.  
 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.  
 P333+P313: If skin irritation or rash occurs : Get medical advice.  
 P363: Wash contaminated clothing before reuse.  
 P370+P378: In case of fire: Use for extinction.

**• 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**

: methenamine; hexamethylenetetramine

**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.

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## MATERIAL SAFETY DATA SHEET (MSDS)

### HEXAMINE LR

#### 3. Composition/information on ingredients

**Substance / Preparation** : methenamine; hexamethylenetetramine

EC No :202-905-8  
 Annex No :612-101-00-2  
 Substance.

| Substance name                         | Contents | CAS No   | EC No     | Annex No     | REACH Ref. | Classification  |
|--|----------|----------|-----------|--------------|------------|---|
| methenamine;<br>hexamethylenetetramine | 100 %    | 100-97-0 | 202-905-8 | 612-101-00-2 | ----       | F; R11<br>R43<br>Flam. Sol. 1 _ H228<br>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** : 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. Get medical advice. Specific treatment (see on this label). If skin irritation or rash occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse.  
**Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.  
**Ingestion** : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

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

**Symptoms relating to use** : May cause an allergic skin reaction.

##### 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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**HEXAMINE LR**
**5. Fire-fighting measures (continued)**

- Flammable class** : Flammable solid.
- 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.

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

- For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.
- Technical measures** : Use special care to avoid static electric charges.
- Special precautions** : Remove ignition sources. No naked lights. No smoking.
- 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** : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.  
 Handle empty containers with care because residual vapours are flammable. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid breathing dust, fume, gas, mist, vapours, spray.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**HEXAMINE LR**
**7. Handling and storage (continued)**

- Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment.
- Special precautions** : No naked lights. No smoking.

**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. Keep in fireproof place. Ground/bond container and receiving equipment.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

**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** : 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** : Solid.
- Colour** : White crystalline
- Odour** : Odorless
- Odour threshold** : No data available.
- pH value** : Not applicable.
- Melting point [°C]** : 280 °C
- Decomposition point [°C]** : N/A

**MATERIAL SAFETY DATA SHEET (MSDS)**
**HEXAMINE LR**
**9. Physical and chemical properties (continued)**

|  |                           |
|--|---------------------------|
| Critical temperature [°C]              | : N/A                     |
| Auto-ignition temperature [°C]         | : 410 °C                  |
| Flammability (solid, gas)              | : Flammable solid.<br>N/A |
| Flash point [°C]                       | : 250 °C                  |
| Boiling point [°C]                     | : N/A                     |
| Initial boiling point [°C]             | : N/A                     |
| Final boiling point [°C]               | : N/A                     |
| Evaporation rate                       | : N/A                     |
| Vapour pressure [20°C]                 | : < 0.01 hPa at 20 °C     |
| Vapour pressure mm/Hg                  | : N/A                     |
| Vapour density                         | : 4,9                     |
| Density [g/cm <sup>3</sup> ]           | : 1,33                    |
| Relative density, gas (air=1)          | : N/A                     |
| Relative density, liquid (water=1)     | : N/A                     |
| Solubility in water [% weight]         | : Soluble in water        |
| Solubility in water                    | : N/A                     |
| Log Pow octanol / water at 20°C        | : No data available.      |
| Solubility                             | : N/A                     |
| Viscosity at 40°C [mm <sup>2</sup> /s] | : N/A                     |

**9.2. Other information**

|                              |                      |
|------------------------------|----------------------|
| Explosive properties         | : N/A                |
| Explosion limits - upper [%] | : N/A                |
| Explosion limits - lower [%] | : N/A                |
| 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**

|                     |                    |
|---------------------|--------------------|
| Hazardous reactions | : Not established. |
|---------------------|--------------------|

**MATERIAL SAFETY DATA SHEET (MSDS)**
**HEXAMINE LR**
**10. Stability and reactivity (continued)**
**10.4. Conditions to avoid**

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

**10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.

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

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

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

**Sensitization** : May cause an allergic skin reaction.

**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.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**HEXAMINE LR**
**12. Ecological information (continued)**
**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.

Special precautions : Handle empty containers with care because residual vapours are flammable.

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

Proper shipping name : HEXAMETHYLENE-TETRAMINE  
 UN N° : 1328  
 H.I. nr : 40  
 ADR - Class : 4.1  
 Labelling - Transport : 4.1 : Flammable solids, self-reactive substances and desensitized explosives.



ADR - Classification code : F1



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**MATERIAL SAFETY DATA SHEET (MSDS)**
**HEXAMINE LR**
**14. Transport information (continued)**

ADR - Group : III  
 ADR - Packing instructions : P002 R001  
 ADR - Limited Quantity : 5 KG  
 ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

**14.2. Sea transport (IMDG) [English only]**

Proper shipping name : HEXAMTHYLNE-TÉTRAMINE  
 UN N° : 1328  
 IMO-IMDG - Class or division : 4.1 : Flammable solids, self-reactive substances and desensitized explosives.  
 IMO-IMDG - Packing group : III  
 IMO-IMDG - Packing instructions : P002  
 IMO-IMDG - Limited quantities : 5 kg  
 IMO-IMDG - Marine pollution : No  
 EMS-Nr : F-A S-G

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

Proper shipping name : HEXAMTHYLNE-TÉTRAMINE  
 UN N° : 1328  
 IATA - Class or division : 4.1 : Flammable solids, self-reactive substances and desensitized explosives.  
 IATA - Packing group : III  
 IATA - Passenger and Cargo Aircraft : ALLOWED  
   - Passenger and Cargo - Packing instruction : 446  
   - Passenger and Cargo - Maximum Quantity/Packing : 25 kg  
 IATA - Cargo only : ALLOWED  
   - Cargo only - Packing instruction : 449  
   - Cargo only - Maximum Quantity/Packing : 100 kg  
 IATA - Limited Quantities : 10 kg  
 ERG-Nr : 3L

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

**MATERIAL SAFETY DATA SHEET (MSDS)**

**HEXAMINE LR**

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

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **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.

**End of document**