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**MATERIAL SAFETY DATA SHEET (MSDS)****ADENINE SULPHATE (ADENINE HEMISULPHATE) (FOR BIOCHEMISTRY)****1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Trade name** : ADENINE SULPHATE (ADENINE HEMISULPHATE) (FOR BIOCHEMISTRY)  
**Product code** : A0013500100  
**Identification of the product** : ADENINE SULFATE AR 99.5%  
CAS No :321-30-2

**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**

Not classified.

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

Not classified.

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

Not classified.

**S Phrase(s)** : S22 : Do not breathe dust.  
S24/25 : Avoid contact with skin and eyes.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ADENINE SULPHATE (ADENINE HEMISULPHATE) (FOR BIOCHEMISTRY)**
**2. Hazards identification -DSD (continued)**
Labelling Regulation EC 1272/2008 (CLP)

Not classified.

**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** : ADENINE SULFATE AR 99.5%  
 CAS No :321-30-2  
 Substance.

**Hazardous component(s)** : This product is hazardous.  
 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.  
**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** : Not expected to present a significant hazard under anticipated conditions of normal use.

**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**

## MATERIAL SAFETY DATA SHEET (MSDS)

### ADENINE SULPHATE (ADENINE HEMISULPHATE) (FOR BIOCHEMISTRY)

#### 5. Fire-fighting measures (continued)

- 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** : 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.
- 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.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ADENINE SULPHATE (ADENINE HEMISULPHATE) (FOR BIOCHEMISTRY)**
**7. Handling and storage (continued)**

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

**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.

**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** : 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** : Colorless

**Odour** : Characteristic.

**Odour threshold** : No data available.

**pH value** : Not applicable.

**Melting point [°C]** : 205 °C

**Decomposition point [°C]** : N/A

**Critical temperature [°C]** : Not applicable.

**Auto-ignition temperature [°C]** : No data available.

**Flammability (solid, gas)** : N/A

**Flash point [°C]** : Not applicable.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ADENINE SULPHATE (ADENINE HEMISULPHATE) (FOR BIOCHEMISTRY)**
**9. Physical and chemical properties (continued)**

|  |                      |
|--|----------------------|
| Boiling point [°C]                     | : N/A                |
| Initial boiling point [°C]             | : Not applicable.    |
| Final boiling point [°C]               | : Not applicable.    |
| Evaporation rate                       | : N/A                |
| Vapour pressure [20°C]                 | : No data available. |
| Vapour pressure mm/Hg                  | : N/A                |
| Vapour density                         | : N/A                |
| Density [g/cm <sup>3</sup> ]           | : N/A                |
| Relative density, gas (air=1)          | : N/A                |
| Relative density, liquid (water=1)     | : N/A                |
| Solubility in water [% weight]         | : N/A                |
| Solubility in water                    | : No data available. |
| Log Pow octanol / water at 20°C        | : No data available. |
| Solubility                             | : N/A                |
| Viscosity at 40°C [mm <sup>2</sup> /s] | : No data available. |

**9.2. Other information**

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

**10.4. Conditions to avoid**

|                     |  |
|---------------------|--|
| Conditions to avoid | : Direct sunlight. Extremely high or low temperatures. |
|---------------------|--|

**10.5. Incompatible materials**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ADENINE SULPHATE (ADENINE HEMISULPHATE) (FOR BIOCHEMISTRY)**
**10. Stability and reactivity (continued)**

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

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.

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

**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.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** : Not established.

**12.4. Mobility in soil**

**Mobility in soil** : Not established.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**ADENINE SULPHATE (ADENINE HEMISULPHATE) (FOR BIOCHEMISTRY)**
**12. Ecological information (continued)**
**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.

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

**General information** : Not regulated.

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

**General information** : Not regulated.

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

**General information** : Not regulated.

**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.

**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**

**MATERIAL SAFETY DATA SHEET (MSDS)**

**ADENINE SULPHATE (ADENINE HEMISULPHATE) (FOR BIOCHEMISTRY)**

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.

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