Basekim
Chemical Production Co.Ltd

Stabilized Hexamine – Technical Data Sheet (TDS)

1. Product Information

- **Product Name:** Stabilized Hexamine
- **Chemical Name:** Hexamethylenetetramine
- **CAS Number:** 100-97-0
- **Molecular Formula:** $C_6H_{12}N_4$
- **Molecular Weight:** 140.2 g/mol
- **Packing Code:** 5H3

2. Technical Specifications

- **Appearance (Visual Inspection):** White crystalline powder
- **Purity:** Min. 99.0 wt.%
- **Ash Content:** Max. 0.53 wt.%
- **Humidity:** Max. 0.25 wt.%
- **Ammonium Salts:** Max. 0.02 wt.%
- **Formaldehyde:** Max. 0.02 wt.%
- **Chloride:** Nil
- **Sulfate:** Nil
- **Heavy Metals:** Nil
- **pH (10% Aqueous Solution):** 8–9
- **Mesh Size:** 80–800 microns (0.080–0.8 mm)
- **US Mesh:** 20–170

3. Physical Properties

- **Molecular Weight:** 140.2 g/mol
- **Melting Point:** >270°C (decomposition)
- **Density:** 1.33 g/cm³
- **Bulk Density:** 0.7–0.8 g/cm³

4. Solubility

- **Water at 12°C:** Approximately 81.3 wt.%
- **Methanol at 20°C:** Approximately 7.25 wt.%
- **Absolute Ethanol at 20°C:** Approximately 2.89 wt.%
- **Acetone at 20°C:** Approximately 0.65 wt.%

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5. Packaging

- **Bag Type:** PP/PE bags
- **Net Weight per Bag:** 25 kg
- **Bags per Pallet:** 40 bags
- **Pallets per Container:** 20 pallets
- **Container Type:** 20-foot FCL
- **Total Container Load:** 20 metric tons
- **Wrapping:** Shrink-PE wrapping

6. Industrial Applications

Stabilized Hexamine is used in several industrial processes, including:

- Phenolic resin manufacturing
- Rubber processing and compounding
- Friction material production
- Industrial molding compounds
- Chemical manufacturing

7. Storage and Handling

Store Stabilized Hexamine in a cool, dry, well-ventilated area. Keep packaging tightly closed and protect the material from moisture, excessive heat, and ignition sources. Follow the product-specific Safety Data Sheet (SDS) for handling and transportation requirements.

Technical Note: The specifications in Sections 1–5 are based on the supplied product data. The industrial applications and storage guidance are general supplementary information. The stabilizer type and concentration are not identified in the supplied specifications and must be confirmed by the manufacturer before issuing an official TDS.