



Technical Data Sheet (TDS)

Sodium Bisulfate (Sodium Hydrogen Sulfate)

1. Product Identification

- **Product Name:** Sodium Bisulfate
- **Chemical Name:** Sodium Hydrogen Sulfate
- **Chemical Formula:** NaHSO₄
- **CAS Number:** 7681-38-1
- **Supplier:** Basekim

2. Product Description

Sodium Bisulfate is a dry, granular or crystalline acidic salt widely used as a **pH reducer, cleaning agent, and industrial processing aid**. It provides a safer, solid alternative to liquid acids for many applications.

3. Typical Specifications

Parameter	Specification
Appearance	White crystalline solid
Purity (NaHSO ₄)	≥ 95–99%
Sodium Sulfate (Na ₂ SO ₄)	≤ 2.5%
Moisture Content	≤ 0.5%
pH (1% solution)	1.0 – 1.5
Bulk Density	1.2 – 1.5 g/cm ³

Note: Values are typical and not guaranteed unless specified.



4. Physical and Chemical Properties

- **Molecular Weight:** 120.06 g/mol
- **Melting Point:** ~315°C (decomposes)
- **Solubility:** Highly soluble in water
- **Odor:** Odorless
- **Form:** Powder, granules, or flakes

5. Applications

- **Water Treatment:** pH control in pools and industrial systems
- **Cleaning Products:** Descaling agent, surface cleaner
- **Food Industry (food-grade only):** Acidulant (E514)
- **Textile Industry:** pH adjustment and finishing
- **Metal Processing:** Pickling and cleaning
- **Agriculture:** Soil pH adjustment

6. Handling & Storage

- Store in a **cool, dry, and well-ventilated area**
- Keep container tightly closed
- Avoid moisture exposure (hygroscopic material)
- Keep away from strong bases and oxidizing agents

7. Packaging

- 25 kg bags
- 50 kg bags
- Jumbo bags (FIBC)
- Bulk supply available upon request



8. Safety Information

- Classified as **corrosive**
- Causes severe skin burns and eye damage
- Use appropriate **personal protective equipment (PPE)**
- Refer to the MSDS for detailed safety information

9. Quality & Compliance

- Manufactured under standard industrial quality controls
- Available in technical and food-grade quality (upon request)
- Compliance with applicable regulations may vary by region

10. Disclaimer

The information provided in this Technical Data Sheet is based on current knowledge and experience. It is intended as a guide and does not constitute a guarantee of product performance. Users are responsible for determining the suitability of the product for their specific applications.