



## Material Safety Data Sheet (MSDS)

### Sodium Bisulfate (Sodium Hydrogen Sulfate)

#### 1. Identification

- **Product Name:** Sodium Bisulfate
- **Chemical Name:** Sodium Hydrogen Sulfate
- **Chemical Formula:** NaHSO<sub>4</sub>
- **CAS Number:** 7681-38-1
- **Recommended Uses:** pH adjustment, cleaning agent, water treatment, laboratory chemical
- **Supplier:** Basekim

#### 2. Hazard Identification

- **GHS Classification:**
  - Skin Corrosion/Irritation – Category 1
  - Serious Eye Damage – Category 1
  - Specific Target Organ Toxicity (Single Exposure) – Category 3 (respiratory irritation)
- **Signal Word:** Danger
- **Hazard Statements:**
  - Causes severe skin burns and eye damage
  - May cause respiratory irritation
- **Precautionary Statements:**
  - Avoid breathing dust
  - Wear protective gloves, clothing, eye and face protection
  - Wash thoroughly after handling
  - Use only in well-ventilated areas



### 3. Composition / Information on Ingredients

- **Substance:** Sodium Bisulfate
- **CAS Number:** 7681-38-1
- **Purity:** Typically  $\geq 95-99\%$

### 4. First Aid Measures

- **Inhalation:**  
Move person to fresh air. If breathing is difficult, seek medical attention.
- **Skin Contact:**  
Remove contaminated clothing. Rinse skin immediately with plenty of water for at least 15 minutes.
- **Eye Contact:**  
Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek immediate medical attention.
- **Ingestion:**  
Do not induce vomiting. Rinse mouth and seek medical attention immediately.
- **Most Important Symptoms:**  
Burns, irritation, coughing, redness, pain

### 5. Fire-Fighting Measures

- **Suitable Extinguishing Media:**  
Water spray, dry chemical, foam, CO<sub>2</sub>
- **Specific Hazards:**  
May release sulfur oxides upon decomposition
- **Protective Equipment:**  
Wear self-contained breathing apparatus (SCBA)



## 6. Accidental Release Measures

- **Personal Precautions:**  
Wear protective equipment and avoid dust formation
- **Environmental Precautions:**  
Prevent entry into waterways
- **Cleanup Methods:**  
Sweep up carefully, avoid dust, place in suitable container for disposal

## 7. Handling and Storage

- **Handling:**  
Avoid contact with skin, eyes, and clothing. Use proper ventilation
- **Storage:**  
Store in a cool, dry, well-ventilated area  
Keep container tightly closed  
Keep away from bases and incompatible materials

## 8. Exposure Controls / Personal Protection

- **Exposure Limits:**  
Not specifically established; use general dust exposure limits
- **Engineering Controls:**  
Local exhaust ventilation recommended
- **Personal Protective Equipment (PPE):**
  - **Eye Protection:** Safety goggles or face shield
  - **Skin Protection:** Chemical-resistant gloves, protective clothing
  - **Respiratory Protection:** Dust mask or respirator if needed



## 9. Physical and Chemical Properties

- **Appearance:** White crystalline solid
- **Odor:** Odorless
- **pH:** ~1 (in solution)
- **Melting Point:** ~315°C (decomposes)
- **Solubility:** Highly soluble in water
- **Density:** ~2.4 g/cm<sup>3</sup>

## 10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Incompatible Materials:** Bases, strong oxidizers
- **Hazardous Decomposition Products:** Sulfur oxides

## 11. Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact
- **Acute Effects:**  
Severe irritation or burns
- **Chronic Effects:**  
Prolonged exposure may cause respiratory irritation

## 12. Ecological Information

- **Ecotoxicity:** Harmful to aquatic life due to acidity
- **Persistence/Degradability:** Not persistent
- **Mobility:** Highly soluble in water



## 13. Disposal Considerations

- Dispose in accordance with local, regional, and national regulations
- Neutralize before disposal if required

## 14. Transport Information

- **UN Number:** UN3260
- **Proper Shipping Name:** Corrosive solid, acidic, inorganic, n.o.s.
- **Hazard Class:** 8
- **Packing Group:** III

## 15. Regulatory Information

- Complies with GHS classification standards
- Check local regulations for specific compliance requirements

## 16. Other Information

- **Revision Date:** 2026