



# Deepak Nitrite Ltd

## Technical Data Sheet

### Sodium Sulfate ( Domestic )

#### 1. Introduction

Sodium Sulfate is a white color crystalline solid material that is soluble in water .It is stable in solid stage, but decomposes in the event of fire .

- 1 Product : Sodium sulfate
- 2 CAS No : 7757-82-6
- 3 Molecular Formula:  $\text{Na}_2 \text{SO}_4$
- 4 Molecular Weight: 142.0
- 5 Structural formula :

#### 2. Physical Properties:

Physical state : solid

Appearance : white color crystalline solid powder

Melting Point : 888°C

Stability : Store this product in cool and dry conditions in a closed containers .It is Up to 2 years if the material stored in the above conditions.

Density : 2.70 g/cm<sup>3</sup> at 20 °C

Solubility : Soluble in Water 200 g/l at 20 °C

Solubility in water at 0 to 100 ° C:

Temperature ° C	Solubility g/100g H <sub>2</sub> O	Concentration % w/w
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0	4.2	3.99
10	14	12.28
20	23	18.69
30	40	28.28
40	45	30.72
60	48	32.11
80	50	33.00
100	53	34.30

Specific Gravity of pure Na<sub>2</sub> SO<sub>4</sub> (99%) in aqueous solution

% Na <sub>2</sub> SO <sub>4</sub>	Specific Gravity at 25° C
10	1.057
20	1.132
30	1.204
40	1.273

Viscosity of pure Na<sub>2</sub> SO<sub>4</sub> (20%)

Temperature ° C	Viscosity Cps
20	2.24
30	1.86
50	1.63

### **3. Product Quality Specification:**

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Sr .No	Parameter	Standard grade
01	Appearance	Off white free flowing Powder
02	Purity	Min. 99 %
03	Insoluble content	Max. 0.1%
04	Chlorides as NaCl	Max. 0.1 %
05	Loss on drying	< 0.20%
06	PH of 5% Solution	7 - 9
07	Solution Clarity	Should be Clear

#### **4. Packing Information:**

Sr. Number	Grade	Packing	Secondary Packing
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01	Standard Grade - Uncoated	50 Kg HDPE woven bags with LDPE liner	-- --
02	Standard Grade -coated	50 Kg HDPE woven bags with LDPE liner	-- --

DNL Can customize packing for different quantities.

## **5.PRODUCT USES**

### **1) Detergents:**

It is used in the detergent industries as filler

### **2) Glass and paper:**

It is used in the glass industries at the time of glass melting and paper industries to make up the density.

### **3) Pharmaceuticals :**

It used in the drug intermediates manufacturing industries to absorb the moisture content in solvents.

### **4) Other uses :**

It is having variety of smaller uses in the industries Ex. Aa reagent in testing Laboratories.

## **6. Regulatory Information :-**

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Particulars	Information	Pictogram
Hazard Class	Not a dangerous compound	
Label	Xi Irritant	
Subsidiary Label	Not required	
UN Number	Not Listed	
Proper shipping Name	Sodium Sulfate	
Packing Group	Not Listed	

## **REACH Details :**

For Sodium sulfate REACH details not available.

## **7. PRODUCT SAFETY INFORMATION :**

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Sodium sulfate is a neutral material and may cause the skin or eyes irritation. If contact with skin, immediately wash with soap and plenty of water for at least 15 minutes while removing the contaminated clothing and shoes. If contact with eyes, flush eyes with plenty of water and if irritation persists, consult a physician immediately. In case of ingestion, rinse the mouth with plenty of water to dilute the substance. The toxicological properties of this substance have not been fully investigated. If inhaled, the person should move to fresh air and if not breathing, give artificial respiration and consult a physician.

As with any chemical, Sodium sulfate requires care in handling. Anyone responsible for the procurement, use or disposal of this product should familiarize himself and those handling the product with the appropriate safety and handling precautions by wearing the personal protective equipment (PPE). This information is available in the Material Safety Data Sheet, which may be obtained by contacting our Customer Service Group.

## **8. Manufacture Site :**

Deepak Nitrite Limited,  
Hyderabad specialty division,  
90F, Phase I, Jeedimetla,  
Hyderabad-500055,  
State : Andhra Pradesh  
India

## **9. Corporate Headquarter: :**

Deepak Nitrite Ltd.  
Aaditya-I, National Highway No. 8, Chhani Road,  
Vadodara - 390 024,  
India

## **10. For Chemical Emergency :**

Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1 703-527-3887

## **Disclaimer :**

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