**BIRLASULF - SM**

**Product Specification Sheet**

**Name**: Sodium Metabisulphite  
**Grade**: Food  
**Description**: Sodium Metabisulphite is a free flowing crystalline powder with odour of SO₂  
**Formula**: Na₂ S₂ O₅  
**Synonyms**: Anhydrous Sodium Bisulphite, Sodium Pyrosulphite, Sodium disulphite  
**Molecular Weight**: 190.12  
**Bulk Density**: 1.2 - 1.3 kg/dm³  
**Appearance**: White free flowing crystals  
**Appearance of 20% Solution**: Clear & Colorless or Pale yellow.  
**CAS NO**: 7681-57-4  

**Specification**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min.</th>
<th>Max.</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay % w/w</td>
<td>97.0</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>SO₂ %</td>
<td>65.3</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Sulphate % w/w</td>
<td>2.5</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Insolubles % w/w</td>
<td>0.1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>pH of 5% Solution @ 25°C</td>
<td>4.0 - 4.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloride as NaCl ppm</td>
<td>50</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Specs. Conforming to ANSI PH4 276:1980**

The above mentioned Values are according to the requirements of:  
**FDA**: Food & Drug Administration of Thailand.  
**FCC**: Food Chemical Codex, USA  
**BP**: British Pharmacopoeia, England.

**ANALYSIS METHODS**

The indicated values are determined according to our Standard Analysis method, which can be produced on request.

**STANDARD PACKING**

- 25 Kgs Polytetrafluoroethylene / paper bags with heat sealed inner liner.
- 500 Kgs and 1000 Kgs Jumbo Bags.

**STORAGE & HANDLING**

Store the product in a cool & dry place. It absorbs moisture & oxidizes if container is not kept tightly closed. If heated over 80°C, SO₂ is evolved, forming Sodium Sulphite.

For more information kindly refer to the Material Safety Data Sheet.

**MAJOR APPLICATIONS OF SODIUM METABISULPHITE**

- Photographic Industry for production of developer Solution / Acidizing Fixation Baths.
- Purification of Aldehydes & Ketones.
- Effluent water-treatment to remove excess Chlorine & detoxification of Chromic acid in electroplating industries.
- Pulp and Paper for De-ignification and Textile as Bleaching Agent, Anti-Chlor and Anti peroxides.
- Tanneries as an Auxiliary in Decadification & Bleaching Process.
- Starch Production as bleaching agent & bactericidal.
- Mining Industry as Flocculating agent, cyanide detoxification.
- Processing of Latex as preservative & Bleaching agent.
- Steam boiler & drilling water as a oxygen scavenger.
- Manufacturing of Indigo Vets dyes.
- Reverse Osmosis as antichlor.
- Medical as manufacturing of anti oxidant drugs.

Brewing as bactericidal.

This Technical data sheet identified as TDS / SM / 0803. Cancels & replaces all previous editions.

The data contained herein are given purely as a guide. We undertake no responsibility either for the results deriving from their adoption or for possible position in apparent contrast with existing patent right.

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