



# Thai Organic Chemicals Co., Ltd

## (Sulphites Division)

### BIRLASULF - SM

#### Product Specification Sheet

<b>Name</b>	:	<b>Sodium Metabisulphite</b>
<b>Grade</b>	:	<b>Photo</b>
<b>Description:</b>	Sodium Metabisulphite is a free flowing crystalline powder with odour of SO <sub>2</sub>	
<b>Formula</b>	:	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>
<b>Synonyms</b>	:	Anhydrous Sodium Bisulphite, Sodium Pyrosulphite, Sodium disulphite
<b>Molecular Weight</b>	:	190.12
<b>Bulk Density</b>	:	1.2 - 1.3 kg/dm <sup>3</sup>
<b>Appearance</b>	:	White free flowing crystals
<b>Appearance of 20% Solution</b>	:	Clear & Colorless or Pale yellow.
<b>CAS NO</b>	:	7681-57-4

#### **Specification:**

Assay	% w/w	98.0 Min.	Iron (as Fe)	ppm	3 Max.
SO <sub>2</sub>	%	66 Min.	Heavy Metals. (as Pb)	ppm	10 Max.
Sulphate	% w/w	1.5 Max.	Selenium (as Se)	ppm	1 Max.
Insolubles	% w/w	0.03 Max.	Arsenic (as As)	ppm	1 Max.
pH of 5% Solution@25°C		4.0 - 4.8	NaCl	ppm	50 Max.
Ammonium Silver Nitrate Test	--	Passes	Na <sub>2</sub> SO <sub>3</sub>	Wt%	1 Max.

Specs. Conforming to ANSI PH4 276:1980, ISO 3267 & BSS 3834

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 Polypropylene Woven / 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 60°C, SO<sub>2</sub> 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.
- Chemical synthesis in the production of Sulphonates, Resins, Iodine & Acrylic Fibres.
- Purification of Aldehydes & Ketones.
- Food Industry as: 1. Preservative (Dehydrated foods, Shrimps, Meat etc), 2. Anti-browning, 3. Anti-fermentation & 4. Bleaching.
- Effluent water-treatment to remove excess Chlorine & detoxification of Chromic acid in electroplating industries.
- Pulp and Paper for De-lignification and Textile as Bleaching Agent, Anti-Chlor and Anti peroxides.
- Tanneries as an Auxiliary in Decalcification & Bleaching Process.
- Starch Production as bleaching agent & bactericidal.
- Mining Industry as Floating agent., cyanide detoxification
- Processing of Latex as preservative & Bleaching agent.
- Steam boiler & drilling water as a oxygen scavenger.
- Manufacturing of Indigo Vats 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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