



# HANS CHEMICALS PRIVATE LIMITED

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## TECHNICAL DATA SHEET

### SODIUM FORMALDEHYDE BI SULPHITE

Sodium hydroxymethanesulfonate, also known as Sodium formaldehyde bisulfite (bisulphite), used as a preservative in cosmetic compositions. The sodium hydroxymethane sulfonate is used to improve the color stability of rosin resins and it has properties of both formaldehyde and sodium bisulfite. It is typically present in an amount of from 0.05% to 5.0%, preferably about 0.25%, based on the weight of the rosin resin.

Sodium hydroxymethane sulfonate, also known chemically as sodium formaldehyde bisulfite,  $\text{NaCH}_3\text{OSO}_3$ , is a white, water-soluble rather inexpensive powder which forms colorless and odorless solutions. Under alkaline conditions this compound is believed to slowly hydrolyze into formaldehyde and sodium bisulfite which by their presence render the desired antibacterial and antioxidant preservative properties, respectively. A preservative aqueous cosmetic composition having an antioxidant and an antibacterial property imparted by a single component is, therefore, obtained by treating the cosmetic composition with a sufficient amount of sodium hydroxyl methane sulfonate to exert a preservative effect to the cosmetic formulation when the pH of the formulation is about 7.0 or higher.

It is also used to control metallic impurities in Bright Nickel Bath and remove Chlorine, Chloramine and Ammonia for water treatment.

#### Sodium Formaldehyde Bisulphite (Sodium Hydroxymethanesulfonate) Specifications:

ITC-HSN Code	2931 00 90
CAS	870-72-4
Formula	$\text{CH}_3\text{NaSO}_4$
Molecular Weight	134.09
Appearance	White freeflow Shining Crystalline
10 % Solubility	Clear
Free Formaldehyde	Nil
Assay	98 % Min
PH of 10% solution	5.5 to 7.5
Water Insoluble	0.2% Max
Sodium Hydrogen Sulphite as $\text{NaHSO}_3$ .	0.5% Max
Thio Sulphate as $\text{Na}_2\text{S}_2\text{O}_3$ .	0.5% Max
Iron as Fe	0.001% Max
Heavy Metals as Pb	0.0005% Max
Moisture Contant	3.0% Max
Zinc as Zn	0.001% Max
Melting point	200°C/Ltr
Flash point	184°C

Uses:

Cosmetic, Electroplating, Photographic use and X- Ray fixer & plating, Water treatment