What is Sodium Bisulfate (SBS)?
- SBS is a dry acid which is readily soluble in water.
- Since SBS is a solid, it does not fume and can be swept up with a broom if spilled.
- SBS is not classified as a hazardous material (DOT or OSHA). The Material Safety Data Sheets for SBS is available upon request. SBS has a safe 1-0-1 hazard rating by the National Fire Protection Agency.
- SBS is packaged in containers ranging from 50 pound bags to 2,000 pound supersacks to bulk truck and hopper cars.
- Jones-Hamilton Co. produces SBS in Toledo, Ohio using systems certified to ISO 9002 standards without the use of crude oil and contains no chlorine, fluorine or organic compounds.
- Jones-Hamilton markets SBS directly to consumers and has a nationwide distribution network.

Why would I want to replace phosphoric acid, citric acid or sulfamic acid with sodium bisulfate?
- Cost savings
- Ease of handling
- Environmentally friendly, biodegradable, non-toxic, ozone friendly claims can be made according to the FTC’s “Environmental Marketing Guidelines”
- Can be an ingredient in Natural formulations
- No phosphates
- No BOD or COD

As a replacement for phosphoric acid, how much do I use?
One pound of SBS is needed to replace one pound of 75% phosphoric acid, and 1.1 pounds of SBS is needed to replace one pound of 85% phosphoric acid.

As a replacement for citric acid, how much do I use?
Replacement for citric acid depends on the matrix and the desired pH, but generally less SBS is required. A 0.035% solution of SBS and a 0.088% solution of citric acid both result in a pH of 3.2.

As a replacement for sulfamic acid, how much do I use?
For each pound of sulfamic acid, 1.2 pounds of SBS is required to achieve the same pH.

What are the chemical and physical characteristics of SBS?
- Off white globular dry bead, readily soluble in water.
- Formula: NaHSO₄;
- Molecular Wt:120;
- Melting Point: 350 F;
- Density 1.33 g/cc or 82 pounds per cubic foot;
- pH of 1% solution: 1.5;
- pKa: 1.99;
- DOT classification: None

How can I get a sample of Sodium Bisulfate for testing or get answers to other questions I may have about Sodium Bisulfate?
Simply call Jones-Hamilton Co. at 888-858-4425 or send an email to info@jones-hamilton.com for a sample of SBS at no cost.

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