Unleash the Power of Acidification with Sodium Bisulfate

SBS Pet® contains no inorganic phosphorous, providing flexibility in formulation when balancing minerals.

JH

SBS PET®

A unique and dependable solution for acidification that provides flexibility in formulation.

Sodium Bisulfate

Density **2.742 g/cm³**

Molar mass **120.06 g/mol**

Melting point **190 °c**

Boiling point **315 °c**

SBS Pet®, sodium bisulfate, has the chemical formula NaHSO4. It's a dry, granular, food grade, inorganic, mineral acid that easily dissociates in water. It's non-hazardous to ship and store and can easily be swept up with a broom if spilled. Sodium bisulfate is stable at temperatures up to 800 F. Sodium bisulfate has a pKa value of 1.99 and is 19% sodium and 80% inorganic sulfate by weight.

General uses for SBS Pet®

- pH reduction for preservation & microbial control in palatants and applications with higher water activity
- Urine acidification to dissolve struvite stones and/or prevent stone formation
- Urinary health & maintenance recipes
- Palatability enhancement for feline diets

Formats

SBS Pet® is available in various sizes:

- 50 lb. bags
- 25kg bags
- 2,000 lb. totes

SBS Pet® Regulatory Approvals

- FDA approved for use in animal feed (1997)
- FDA GRAS
- AAFCO General Purpose Food Additive, Table #87.5, with no age or inclusion restrictions
- CVM accepted for use as an acidulant at levels consistent with GMP's and as an accepted ingredient in cat foods seeking to make urinary health claims (1999)
- EU Approved as a feed additive up to 2% in feline diets

SBS Pet® - Natural by AAFCO Definition

- Sodium bisulfate meets the natural requirements established by AAFCO, as it's derived from mined sources and subjected to a heating process. No artificial or synthetic ingredients are used in the manufacturing process.

Benefits

- Does not contain additional calcium or inorganic phosphorus, providing flexibility in formulation when balancing minerals
- Can be used in natural recipes
- The sulfate component of the ingredient provides the additional benefit of enhanced palatability
- The sodium content of the ingredient stimulates water consumption, which contributes to the overall health of the animal
- Low pKa value of 1.99 makes sodium bisulfate a highly effective option for acidification and preservation
- Lower inclusion rates result in cost savings across multiple applications and segments of the business
- Dry, granular format is easy to use, handle and store
- Trusted for decades by the human food industry as a safe choice to lower pH
- Highly skilled technical service team available to help with any formulation questions
- Dedicated field equipment engineer on staff for troubleshooting any challenges in the factory
- Manufactured in the USA by the largest global manufacturer of sodium bisulfate

Nutritional Considerations

Phosphoric Acid

Inorganic phosphorus is the main element in phosphoric acid. High levels of inorganic phosphorus in diets are associated with adversely affecting renal function parameters in healthy cats (Dobenecker et al., 2018) and an increased risk of developing chronic kidney disease (CKD) (Böswald et al., 2018).

SBS Pet®

SBS Pet® is a natural product that acidifies the diet and improves palatability without affecting the calcium/phosphorus ratio.

SBS Pet® is a source of sodium that can help increase water consumption, which in turn helps dilute urine, thereby reducing the risk of struvite or calcium oxalate formation.

Founded in 1951, Jones-Hamilton (JH) is an employee owned, U.S.-based chemical manufacturer of sodium bisulfate and hydrochloric acid, with three manufacturing plants in the United States. JH is the largest global supplier of sodium bisulfate and the first to introduce the benefits of using this acidifier to the human and pet food industries more than 25 years ago.

Our responsible approach to delivering consistent, high-quality products has fueled our growth and cemented our reputation as a dependable supplier. Our progressive management approach is evident in our diversification, stewardship, employee engagement and strategically located facilities.

With more than 60 years of manufacturing experience, no other company has a greater understanding of the characteristics, capabilities and value of the dry mineral acid, sodium bisulfate and the benefits it brings to the pet food industry.

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Our dedication to responsible stewardship is visible in the actions of our employees, stringent corporate safety policies and dedication to creating sustainable products. We follow clean manufacturing processes with practically zero waste and maintain cradle-to-use product traceability.