

PALS

Supplier Of Choice

1-800-328-8842

Feed & Medication

8-3-18

NEWSletter



Several Amino Acids and Copper Sulfate prices have come down slightly in recent weeks. Choline Chloride has gone up slightly.

Choline and Copper are items on the attached Proposed Tariffs list.

Trucking costs continue to rise as availability continues to be a challenge.

While attending a recent seminar I learned what bio-film is and how it effects your water systems. The following link has 2 YouTube videos that show how it affects you.

<https://www.youtube.com/watch?v=tGKLafvm60U&feature=share>

BioSafe Systems **1-800-328-8842** **PALS Supplier Of Choice**

SaniDate 5.0 VS. **Cid 2000**

Net cost \$49.99 Item#: 080306 **Save \$18.12 per 2.5 gallons** Net cost \$68.11 Item#: 080330

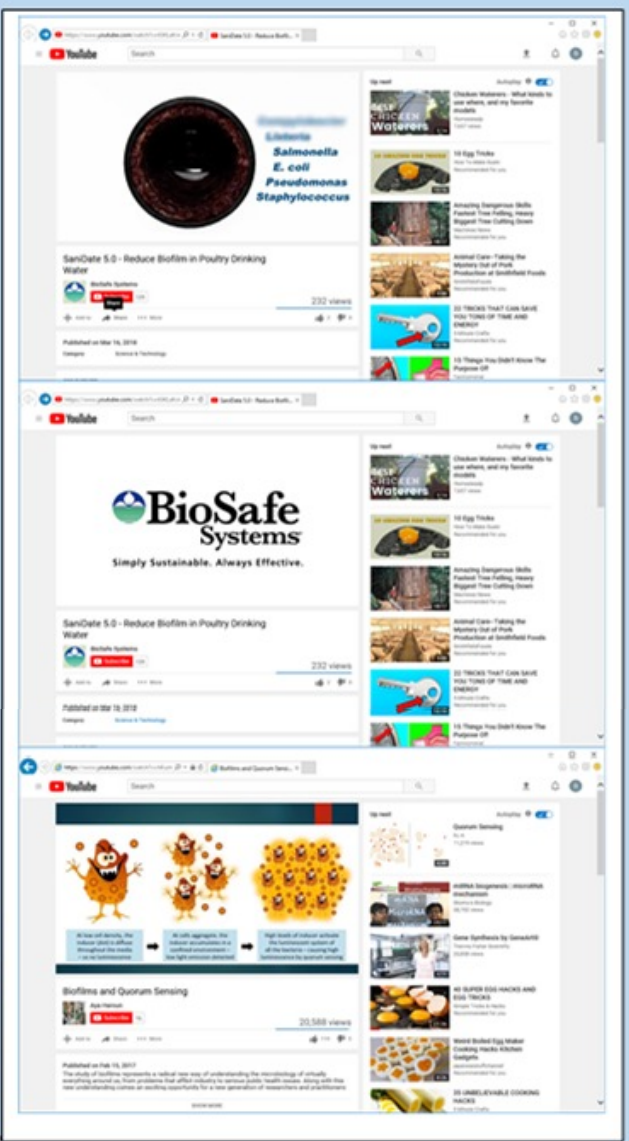
University of Arkansas recently released a study validating SaniDate® 5.0 as an effective antimicrobial and line cleaner for use in poultry water systems. Mineral build-up and bacterial biofilms are common in poultry water systems. They result in reduced flow rates and weakened bird performance. Biofilms can also harbor pathogens creating risk of disease throughout entire flocks.

The study conducted by Dr. Susan Watkins and Dr. Geetha Sanal Kumar Phillips determined the effectiveness of SaniDate® 5.0 using different concentrations and varied levels of microbe population as a line sanitizer and as a drinking water sanitizer when birds are present.

As a line sanitizer SaniDate® 5.0 proved effective for reducing aerobic plate counts, yeast and mold levels at test dilution rates of 1:50 or 1:128 and was comparable to CID 2000. As a drinking water inclusion all test dilution rates (1:2,900 - 1:15,059) had a significant impact on aerobic bacteria levels.

Effective in treating:

- Salmonella
- Pseudomonas
- Mold and Mildew
- Strep
- Staph
- Pedicoccus damnosus
- E.Coli
- Listeria
- Staphylococcus aureus

The image shows three screenshots of a YouTube channel for BioSafe Systems. The top screenshot shows a video titled 'SaniDate 5.0 - Reduce Biofilm in Poultry Drinking Water' with 232 views. The middle screenshot shows the BioSafe Systems channel page with the tagline 'Simply Sustainable. Always Effective.' The bottom screenshot shows a video titled 'Biofilms and Quorum Sensing' with 20,588 views.

Amasil has been so well received and used that it is out of stock at the Manufacture until the 3rd week of August.

INTRODUCING The Next Generation in Feed Safety and Animal Efficiency

AMASIL[®]
Formic Acid
by BASF



TABLE 1

| Strongest Organic Acid | | | |
|------------------------|------|-------|--------|
| ACID | pKa* | g/mol | Mol/kg |
| Formic | 3.75 | 46 | 21.7 |
| Acetic | 4.75 | 60 | 16.7 |
| Propionic | 4.87 | 74 | 13.5 |
| Butyric | 4.82 | 88 | 11.3 |
| Lactic | 3.86 | 90 | 11.1 |
| Benzoic | 4.19 | 122 | 8.2 |
| Ascorbic | 4.10 | 176 | 5.7 |
| Citric | 3.08 | 192 | 5.2 |

*lower pKa – stronger acid

SAFE FEED

AMASIL is a feed acidifier that improves feed hygiene and modifies gut microflora for improved animal performance and reduced Salmonella transmission. Backed by 25 years of university and on-farm research, AMASIL is one of the strongest organic acids with the highest molecular density, allowing it to have a more complete and sustained antimicrobial effect in the feed and in the gut.

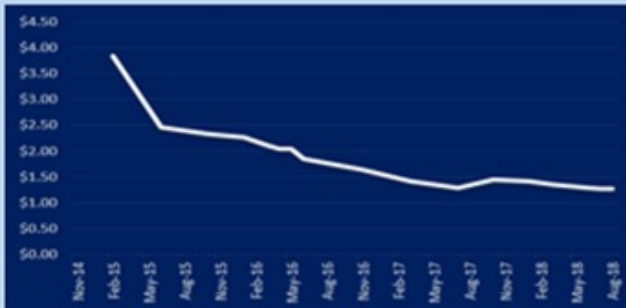
AMASIL is trusted in poultry diets around the world. [START YOUR TRIAL TODAY.](#)
[CONTACT US AT 1-800-780-9233.](#)

AMASIL NA is FDA approved for feed acidification (21 CFR § 573.698) and GRAS for use in drinking water for poultry and livestock (GRAS statement is available upon request).



BALCHEM
Real People. Real Science. Real Results.

Pricing in graphs reflect our highest retail price. Full pallet, truckload, customer pickup and other factors may reduce your purchase price.



Evonik Methionine:

Year ago \$1.44 lb
 60 days ago \$1.28 lb
 Today \$1.24 lb



ADM Lysine:

Year ago \$0.76 ½ lb
 60 days ago \$0.81 lb
 Today \$0.77 lb

Methionine: For the last couple of months has gone down slowly. It looks to stay at current pricing. (At 4 year lowest price)

Lysine: Ajinomoto Lysine available at a lower price



ADM Threonine:

Year ago \$1.24 lb
 60 day ago \$1.03 lb
 Today \$0.95 lb



Tryptophan:

Year ago \$4.82 lb
 60 days ago \$6.18 lb
 Today \$3.99 / \$4.39 lb

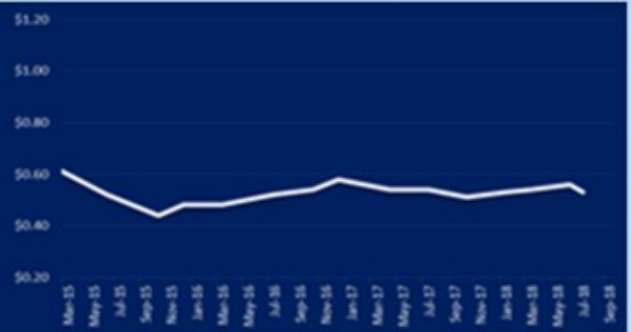
Threonine: For the last couple of months has gone down, again this month Ajinomoto Threonine available at a lower price Pricing is very good at this time.

Tryptophan: Granular still harder to get. Up a little over last month. Current pricing rumored to not last much longer



Copper Sulfate:

Year ago \$1.08 lb
 60 days ago \$1.15 lb
 Today \$1.09½ lb



Biolys:

Year ago \$.54 lb
 60 days ago \$.54 lb
 Today \$.53 lb

Copper Sulfate: Down a little this month, has been hanging around same price for several months. On Possible tariffs list (see attachment)

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Randy Young

Supply Chain Manager

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zoetis



Diamond V

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