

# SOLVAir® Breeze

SO<sub>3</sub>

Trona

SO<sub>2</sub>

Sodium Bicarbonate

HCl



## SOLVAir® Products for Air Pollution Control

SOLVAir Select 300 Sodium Bicarbonate

SOLVAir Select 350 Sodium Bicarbonate

SOLVAir Select 200 Trona

SOLVAir Select 150 Trona

*The SOLVAir Group will be participating at the APC/Reinhold NO<sub>x</sub> Conference and Round Table in Chattanooga, TN, February 8-11, 2010. Perhaps we will see you there!*



A Newsletter  
from SOLVAir  
Products  
Group, Solvay  
Chemicals, Inc.  
February 2010

## Trona... an effective alternative to SO<sub>3</sub> for conditioning an Electrostatic Precipitator!

Utilities often use SO<sub>3</sub> to condition flue gas and improve the performance of the ESP. SO<sub>3</sub> is proven to inhibit mercury (Hg) removal whether captured on fly ash or by using powdered activated carbon (PAC). However, problems with that strategy are looming on the horizon. Most recently, the EPA and some state regulators are proposing tighter regulations of mercury emissions from the stacks.

SO<sub>3</sub> must be removed in order to meet these mercury regulations. And that may be a challenge for those using SO<sub>3</sub> to condition flue gases.

Trona is an effective solution to both problems. It can improve resistivity of the fly ash, and aid in mercury capture by removing SO<sub>3</sub>. Increasing sodium content in fly ash can lower its resistivity and consequently improve the ESP performance. In addition, adding trona removes SO<sub>3</sub> that would inhibit mercury removal and cause a visible blue plume. With a simple trona addition system and lower capital cost than that of an SO<sub>3</sub> production and injection structure, wouldn't you want to explore the difference?

Contact [michael.wood@solvay.com](mailto:michael.wood@solvay.com) on how to replace your SO<sub>3</sub> system with trona to condition flue gas for effective PM removal.

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SOLVAir®  
PRODUCTS