



*Effective multi-pollutant control Solutions  
for more than 25 years*



**SOLVAY**

asking more from chemistry®

## ***SOLVAir® Solutions Global Vision***

*To offer and continuously develop profitable and sustainable environmental solutions used for air emissions control and associated waste, which includes a portfolio of products, services, technologies and treatment systems.*





Effective help for air pollution control



Air pollution control is the business of SOLVAir Solutions, and it is our only business. Formed to address the problems of SO<sub>x</sub>, HCl, and other emissions in stack gases, our products have been helping customers clean the air and comply with the changing regulations for more than 25 years.

The market leader in providing sodium sorbents for use in Dry Sorbent Injection systems, we help our customers choose both the right technology and the right product for their plant's air pollution control needs.

Today, supported by the global SOLVAir initiative, we continue to focus exclusively on North America at our U.S. headquarters in Houston. SOLVAir Solutions is part of Solvay Chemicals, Inc., which provides essential and specialty chemicals to the North American marketplace



*With the changing regulations, multi-pollutant control is a much-discussed topic. Strict compliance deadlines mandated for these policies often do not allow for lengthy analyses. A low capital cost Dry Sorbent Injection system utilizing sodium bicarbonate or trona may be exactly what is needed to help your plant become compliant.*



**SOLVAir Select 300 and 350 Sodium Bicarbonate**  
***For multi-pollutant control***

For many years, sodium bicarbonate has been used to reduce acid gas emissions in industries including cement, glass, and waste incinerators. Considered BACT in the EU for treating HAPs, Select 300 sodium bicarbonate offered by SOLVAir Solutions is also effective in treating multiple pollutants. Take another look at this time-tested technology which could help your plant meet the newest emission limits.

SOLVAir Solutions also offers Select 350 sodium bicarbonate, a premilled product which is ready to use. Select 350 is made to very tight specifications and can enhance performance when used in a properly designed injection system.



### **SOLVAir Select 200 Trona**

*A natural answer to HAPs and SO<sub>x</sub>*

SOLVAir Select 200 trona continues to demonstrate its power and effectiveness in numerous field applications and plant trials. As a dry powder injected into an exhaust duct before a baghouse or an electrostatic precipitator (ESP), Select 200 rapidly reacts with acid gases to form a safe, non-corrosive waste product that will not damage equipment. Field tests



have shown Select 200 highly effective at removing SO<sub>2</sub> and SO<sub>3</sub> as well as HCl and HF.

A natural mineral mined in Wyoming, Select 200 has been used for acid gas abatement for more than 25 years in industries as varied as coal fired power plants, pulp & paper mills, municipal and medical waste incineration, chemical plants and much more..

### **SOLVAir Select 150 Trona**

*East of the Mississippi, close to market!*

SOLVAir Solutions brings the mine closer to market with the accessibility of its newest terminal, east of the Mississippi. This puts SOLVAir Select 150 trona close to our customers' plants, thus reducing lead time often necessary to deliver product to select locations. It also lessens the concerns of supply interruptions caused by severe weather, rail disruptions, and other problems. Select 150 is milled to specification for use in the same DSI system used for SOLVAir Select 200 trona.



## Dry Sorbent Injection

*An effective alternative to semi-wet or wet scrubbers*

Dry Sorbent Injection has emerged as an important  $\text{SO}_2$  and HCl mitigation technology with its low capital cost, small installation footprint, ease of operation, and flexibility of response to changing fuels.



Recent pilot plant tests conducted by Solvay Chemicals at an independent site incontrovertibly prove that Dry Sorbent Injection of sodium bicarbonate or trona is effective in the removal of HCl and  $\text{SO}_2$ . And for more than a decade, trona has been used in DSI to reduce  $\text{SO}_3$  levels, prevent corrosion and eliminate the blue plume.

Dry Sorbent Injection's effective use of sorbents to clean the air has been proven time and again in customer plant tests and with select equipment vendors. With new regulations soon to be in place, don't hesitate. Call SOLVAir Solutions, the expert in DSI and sodium sorbents implementation.



### **The Responsible Care® initiative**

We are committed to sustainable development through the Responsible Care initiative, a policy adhered to by all Solvay companies. The Responsible Care initiative underscores our focus on continuous improvement in the health, safety and environment of our planet.







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SOLVAY is an international chemical Group committed to sustainable development with a clear focus on innovation and operational excellence. Its recent acquisition of specialty chemicals company Rhodia created a much larger player, which is realizing over 90% of its sales in markets where it is among the top 3 global leaders. Solvay offers a broad range of products that contribute to improving the quality of life and the performance of its customers in markets such as consumer goods, construction, automotive, energy, water and environment, and electronics. The Group is headquartered in Brussels. Its companies employ about 29,000 people in 55 countries and generated EUR 12.7 billion in net sales in 2011 (pro forma). Solvay SA (SOLB.BE) is listed on NYSE Euronext in Brussels and Paris (Bloomberg: SOLB.BB - Reuters: SOLBt.BR).

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