



Sulfur Dioxide (SO₂)

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Sulfur dioxide (SO₂) is available in a liquefied form, under pressure.

Unlike other manufacturers who produce SO₂ using a sulfur burner, Calabrian's proprietary production process generates high purity on-purpose sulfur dioxide by the reaction of pure oxygen with sulfur. This unique closed loop design supports a more efficient and environmentally friendly production process.

Applications:

Dechlorination in municipal wastewater, pulp & paper, power, and textile water treatment plants

Oxygen scavenger

Preservative

Reducing agent

Sanitizer

Used in production of cleaning agents, detergents, and soaps

Intermediate to sulfur trioxide, oleum and sulfuric acid



Chemical Composition:

Sulfur dioxide, wt%	99.9 min
Non-volatiles, ppm	50 max
H ₂ SO ₄ , ppm	25 max
Moisture, ppm	100 max

Physical Properties:

Boiling point	14°F
Critical temperature	314.8°F
Critical pressure	77.7 atm.

Specific gravity of liquid at 32°F (water = 1)	1.43
Gas at 32° F and 1 atmosphere (air = 1)	2.26
Density of gas at 32°F and 1 atmosphere	2.92 kg/m ₃
Viscosity of liquid at 32°F	0.39 centipoise

Product meets FCC specifications and is also Kosher and NSF certified.

Packaging:

Shipped in insulated railcars and tank trucks as a liquid under pressure.

SOxClean: an alternative to burning sulphur in air

Language

English

[Read more](#)

SO₂Clean™

Language

English

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SO2Clean™ for Mining

Language

English

[Read more](#)

Sulfur Dioxide SDS

Language

English

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Sulfur Dioxide Product Data Sheet

Language

English



Brochures/Literature/Media

Title	Language	PDF Document
SOxClean: an alternative to burning sulphur in air	English	Click Here to Download
SO2Clean™	English	Click Here to Download
SO2Clean™ for Mining	English	Click Here to Download
SO2Clean™ Para minería	Spanish	Click Here to Download
SO2Clean™	Spanish	Click Here to Download

Safety Data Sheets

Title	Language	PDF Document
Sulfur Dioxide SDS	English	Click Here to Download
Dióxido de azufre - Hojas de datos de seguridad	Spanish	Click Here to Download

Product Data Sheets

Title	Language	PDF Document
Sulfur Dioxide Product Data Sheet	English	Click Here to Download
Dióxido de azufre (SO2) - Hojas de datos sobre el	Spanish	Click Here to Download

producto

Latest News and Updates

INEOS ENTERPRISES HAS ACQUIRED CALABRIAN CORPORATION IN NORTH AMERICA Kingwood, TX August 2, 2016

INEOS Enterprises today announced it has acquired 100% of the shares of Calabrian Holdings Corporation, a technology and market leader of sulphur dioxide and sodium based derivatives in North America. The company has production located in Texas and is currently building a facility in Ontario. The Calabrian plant in Texas is the largest producer in North America of SO₂ [and sodium based derivatives]. The operation in Ontario Canada will add an additional 35,000 tonnes of capacity once completed at the end of 2016. The acquisition will add a North American dimension to INEOS' existing sulphur chemicals portfolio. Ashley Reed, CEO of INEOS Enterprises said, **"We are very pleased to have acquired this modern production facility in Texas and look forward to**



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the completion of the Canadian facility late this year. The assets are ideally positioned to serve the North American market, with excellent cost position and logistical infrastructure.

Additional synergies will be explored with our existing business in Europe.”

Randy Owens, CEO of Calabrian

Corporation said, **“The Company has undergone significant transformation during SK Capital’s ownership.**

INEOS’ global infrastructure will allow the next phase of growth by accelerating geographical expansion and further advancing its technology strategy.”

Completion of the transaction took place at the end of July.

The purchase price was not disclosed.

CALABRIAN will participate at The Big Event Canadian Mining Expo this June 1-2, 2016 at the McIntyre Community Complex in Timmins, Ontario. Please visit our booth in Arena 2, # R2-09.

CALABRIAN ANNOUNCES ITS PLANS TO BUILD SO2CLEANTM PRODUCTION FACILITY IN EASTERN

CANADA**Kingwood, TX October 9, 2015 –**

Calabrian Corporation, the leading producer of liquid Sulfur Dioxide in North America, announced today it is building a liquid Sulfur Dioxide production facility in Eastern Canada. The facility will serve the local mining, paper and water treatment markets. Site development and construction will begin immediately and production is expected to commence in the fourth quarter of 2016.

The new plant will utilize Calabrian's proprietary production process, SO2Clean™, which is virtually emission free, reliable and capital efficient. With local production and the best technology in the industry, Calabrian will be able to provide customers with the highest levels of customer service and address their enterprise risk management concerns.

“Following the shutdown of Sulfur Dioxide production in Sudbury and Kidd Creek in recent years, Eastern Canada consumers of Sulfur Dioxide have experienced supply challenges. We look forward to serving these markets by reducing transportation complexity and risk in a more economical way,” said Randy Owens, CEO of Calabrian.

Calabrian has secured long-term lease rights to an industrial site in the City of Timmins, Ontario. Randy Owens added,

“The City of Timmins has been a great development partner for us and we look forward to becoming a part of their business community. Our investment would not have been possible without the support of the Timmins Economic Development Corporation, City of Timmins staff and City Council.”

“We welcome this new partnership with Calabrian, which brings with it the addition of skilled manufacturing jobs to support Canada’s mining industry. We look forward to the positive economic impact it will have in our community. I would like to thank the management at Calabrian, local staff at Timmins Economic Development Corporation, Ontario Northland Transportation Commission and City Hall staff for helping highlight what our great city has to offer new industry,” said Steven Black, Mayor of Timmins.

Calabrian’s geographic expansion into Eastern Canada follows its capacity addition at its site in Port Neches, Texas, which was completed in 2014. Calabrian is utilizing that capacity to serve customers in Eastern Canada and will continue to do so until the new facility is commissioned. After start-up of the Eastern Canada facility, Port Neches will resume its focus on existing customer volumes, market growth, as well as new

and existing derivatives.

Additionally, Calabrian announced today the execution of a Sulfur Dioxide Distribution Agreement with Univar Canada Ltd., a wholly owned subsidiary of Univar Inc., to service the mining industry on an exclusive basis. “The Calabrian and Univar partnership is founded on common principles whereby Calabrian brings manufacturing excellence and Univar brings logistics, distribution and mining industry services, the combination of which will create a reliable supplier to mining customers in Eastern Canada,” said Randy Owens. “With this new partnership, we are excited to further expand our portfolio, strengthen our position, and help us better serve mining customers in the region,” said Barry McGee, VP Business Development, Univar Canada. “Univar is the largest chemical distributor in Canada, and our team has been growing and expanding to serve mining industry customers and suppliers from Quebec to British Columbia, and we are excited to bring this new offering to our valued customers.”

ABOUT UNIVAR INC.

Founded in 1924, Univar is a global distributor of specialty and basic chemicals from more than 8,000 producers worldwide. Univar operates

more than 700 distribution facilities throughout North America, Western Europe, the Asia-Pacific region, and Latin America, supported by a global network of sales and technical professionals. With a broad portfolio of products and value-added services, and deep technical and market expertise, Univar delivers the tailored solutions customers need through one of the most extensive chemical distribution networks in the world. Univar is Chemistry DeliveredSM. For more information, visit www.univar.com.

For more information, please contact Michelle Gehle at mgehle@calabriancorp.com or +1 281-348-2303.

Calabrian Increases its Price for Sodium Sulfite Kingwood, Texas – June 25, 2015

Effective July 1st, Calabrian Corporation is increasing pricing for Sodium Sulfite Anhydrous by \$0.02 per pound. Rising raw material, energy, and transportation costs are the drivers for this price increase.

Calabrian Increases its Price for Sulfur Dioxide

Calabrian Corporation, the largest prime producer of liquid sulfur dioxide and related derivatives in North America, announced that effective October 15th, or when permissible by contract, it will increase the price of sulfur dioxide by \$100 per short ton.

The sulfur dioxide market has tightened considerably as a result of strong demand and reduced availability of byproduct material

In July, Calabrian announced that it was expanding production of SO₂ at its Port Neches, Texas plant. The multimillion dollar expansion, using its proprietary SO₂Clean™ technology is expected to be online by the end of the year. This price increase will support our continued investment in our SO₂ and derivatives business”, said Jeffrey Hammerstrom Director of Business Development. “Our expansion will enable Calabrian to provide our customers with a reliable, on purpose, source of sulfur dioxide to meet their needs and allow Calabrian to strengthen its market leading position in SO₂, sodium metabisulfite, and other sulfur derivatives.”

Calabrian Strengthens and Expands Capacity, Positioning for Future Growth

Kingwood, Texas – July 21,

2014: Calabrian Corporation, the largest prime producer of liquid sulfur dioxide and related derivatives in North America, announced today that it will expand by 50% the production of SO₂ at the Port Neches, Texas plant. The multimillion dollar expansion is expected to be online by the end of the year.

The expansion utilizes Calabrian's proprietary SO₂Clean™ technology. The technology, which burns sulfur in pure oxygen, enables production that is highly reliable, free of SO_x and NO_x emissions and expandable on a modular basis, and is therefore economically superior to a sulfur burner. These characteristics speed permitting, allow rapid expansion, and make SO₂Clean™ ideal for in situ production.

The driver behind the expansion is Calabrian's strategy of strengthening its

leading position in SO2 and derivatives. “We view this proactive step as an investment in our customers and the industries we serve,” said Randy Owens, President and CEO. “We are excited about this capacity expansion. It will allow Calabrian to achieve growth targets in applications such as water treatment, oil and gas, and mining.”

For more information, please contact Michelle Gehle
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Calabrian Corporation Appoints Randy Owens as Chief Executive Officer
June 04, 2014 06:00 AM Eastern Daylight Time
KINGWOOD, Texas--(BUSINESS WIRE)--Calabrian Corporation, the largest prime producer of liquid sulfur dioxide and related derivatives in North America, is pleased to announce that Randy Owens has joined the company as Chief Executive Officer. Calabrian is a portfolio company of private investment firm SK Capital Partners. Randy assumes the CEO role from Charles Cogliandro, whose family founded the company in 1968 and has been CEO

since 1998. Charles will remain on the board of directors and will provide guidance and support as part of a planned transition.

Randy Owens brings to Calabrian over 25 years' specialty chemicals experience in water intensive industries such as oil and gas, mining, paper, wastewater, and cooling and boiler treatment. In his most recent role, Randy was the President of Kemira Oyj's global Oil and Mining business as well as Regional Head of North America.

February 23-26, 2014

Calabrian presented a paper at the Laurance Reid Gas Conditioning Conference on . NCED Conference Center and Hotel University of Oklahoma - Norman, Oklahoma. Our presentation discussed the SO₂Clean technology for debottlenecking Sulfur Recovery Units.

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