



LIGNOSULFONATES FROM TEMBEC

Naturally suited to your business

 **tembec**
Rooted in tomorrow.

TEMBEC, A MANUFACTURER OF FOREST PRODUCTS, IS ONE OF THE WORLD'S LARGEST PRODUCERS OF LIGNOSULFONATES – USED AS BINDERS, DISPERSANTS AND CHELATING AGENTS

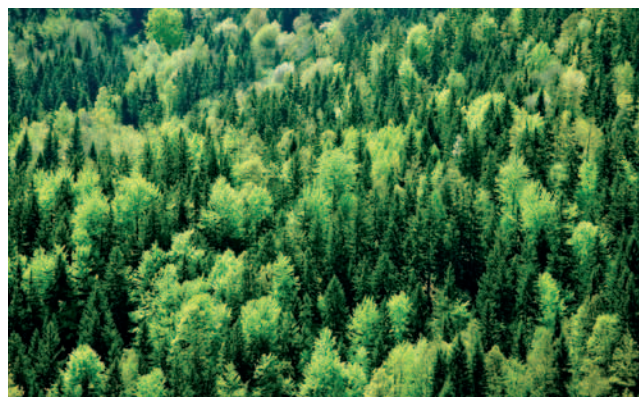
THE NATURE OF OUR PRODUCTS

Our ARBO™ brand lignosulfonates go to work every day in a range of essential industries including agriculture and mining, building materials and construction, even tires and environmental remediation.

And our high-quality lignosulfonates couldn't be more natural. They are modified natural polymers derived from a renewable resource – trees from well-managed forests.

SUSTAINABLE MANUFACTURING AND RESPONSIBLE FORESTRY

Tembec's state-of-the-art biorefineries in Temiscaming, Québec and Tartas, France use the whole tree, extracting full value from fiber to manufacture forest products (e.g. pulp, paper, specialty cellulose) and a number of co-products.



THE NATURE OF OUR SERVICE

Tembec, a leader in the forest products industry for more than 40 years, has produced and marketed lignosulfonates for over 30 years. You get the benefit of decades of continuing research, experience and technical know-how.

WE SERVE CUSTOMERS WORLDWIDE

You can count on our personalized service and undivided attention: Tembec believes in face-to-face contact with customers. We make a point of following up to ensure you're satisfied with our products, technical support, and customer service.

Our co-products include ARBO™ lignosulfonates, refined from lignin and extracted from our specialty cellulose pulping process. Our annual production capacity is 225,000 metric tons.

Tembec is one of the few suppliers with a full range of ammonium, sodium, potassium and calcium based lignosulfonates available as Forest Stewardship Council®(FSC®) certified products – your assurance our products are derived from fiber harvested from responsible sources.

ARBO™ LIGNOSULFONATES: A WORLD OF APPLICATIONS



BINDERS

ARBO™ binding products – in liquid or powder form – agglomerate fine particles into abrasion-resistant pellets or granules. Their low toxicity makes our binders ideal for preparing animal feed pellets and fertilizers. They can also bind carbon black particles to form small, stable granules that can be reconstituted into their original form when used.

DISPERSANTS

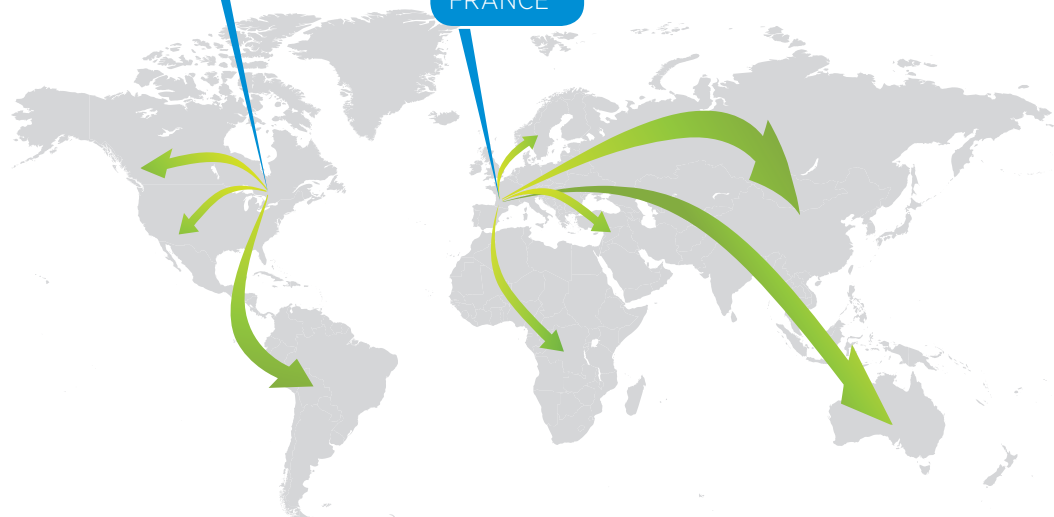
With small amounts of dispersants, slurries of various kinds can be fluidized. For example, adding ARBO™ lignosulfonates to concrete increases the strength of the finished concrete by maintaining fluidity while reducing water content. Wax emulsions can also be stabilized.

CHELATING AGENTS

ARBO™ chelating agents chemically bind small amounts of micronutrients applied to plants. They can also bind heavy metals in contaminated soils for easier removal and recovery.

TÉMISCAMING, QUÉBEC
CANADA

TARTAS,
FRANCE



THE NATURE OF OUR ENVIRONMENTAL COMMITMENT



The trees we use come from well-managed forests which means we're committed to harvesting trees with the least impact on the environment. Replanting trees and ensuring there are sustainable resources for generations to come is a top priority for Tembec.

In 2001, Tembec became the first large public forest products company in Canada to make the commitment to utilize standards developed by the internationally recognized Forest Stewardship Council® (FSC®) and seek certification on all company forest management units.

By 2008, Tembec had certified 100% of the public forestlands under our management, and also achieved Chain-of-Custody certification. Currently, Tembec directly manages just over 8.8 million hectares (21.9 million acres) of forestlands – an area more than twice the size of Switzerland.



The mark of responsible forestry

Tembec's FSC® forest management licence codes

FSC® C005719
FSC® C005058
FSC® C004443
FSC® C006798
FSC® C011339
FSC® C100637
FSC® C010993

Tembec has the world's largest FSC-certified forest products offering, which includes our FSC-certified ARBO™ lignosulfonates products.

BIOENERGY FROM BIOMASS IS HELPING OUR BUSINESS AND THE ENVIRONMENT

Both in Québec and in France, our biorefineries are shining examples of our environmental commitment. Our biorefineries use biomass – such as tree branches, bark and sawdust – to produce bioenergy. This reduces our dependence on fossil fuels used to produce heat for our manufacturing processes – helping Tembec act on carbon and climate change.





CUSTOMIZATION, TO MEET YOUR SPECIFIC NEEDS



A NATURAL FIT FOR MANY GLOBAL INDUSTRIES

BINDERS

- **Agriculture**

- Animal feed
- Pesticides
- Fertilizers



- **Carbon black**

- Tires

- **Dust control**

- **Pigments**

- **Tiles and bricks**



DISPERSANTS

- **Concrete admixtures**

- **Oil management**

- Drilling
- Pipes
- Production



- **Mining**

- Ore separation

- **Leather tanning**

- **Fillers**

- **Gypsum and wallboard additives**

- **Wax/water emulsions**



CHELATING AGENTS

- **Water treatment**

- **Micronutrients**

TECHNICAL SUPPORT

From the moment you choose ARBO™, you get our undivided attention. Our technical sales team will help you select the best product for your needs in a one-on-one meeting. And we'll follow up with you regularly.

SPECIFICATIONS

Need a formulation to meet your exact specifications? No problem. We will work with you to provide exactly what you require.

FORMAT AND PACKAGING

ARBO™ lignosulfonates can be provided in either liquid or powder format. They can be packaged according to your requirements – powder in 25 kg to 1000 kg bags, and liquid in a variety of bulk quantities depending on the mode of transportation.

TRANSPORTATION WORLDWIDE

You choose the mode – whether it's rail, bulk shipping, in containers or tanker trucks, we can accommodate you. Our efficient worldwide and local distribution equips us to meet the evolving needs of customers across the globe.

SERVICE

You get what you need when you need it. We provide quick turnaround and on-time delivery. You don't have to worry about disruptions to your production or delivery schedules.



ABOUT TEMBEC

Tembec is a manufacturer of forest products – lumber, pulp, paper and specialty cellulose – and a global leader in sustainable forest management practices. Our co-products include ARBO™ lignosulfonates. Principal operations are in Canada and France. Tembec has some 4,000 employees and annual sales of approximately \$2 billion. Tembec is listed on the TSX (TMB).

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