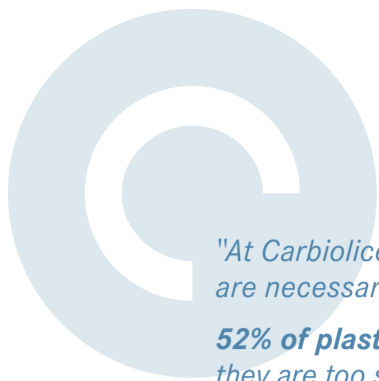


ACT
FOR
BIO-
-DEGRA-
DABILITY



CARBICLICE

Biodegradability is the future



"At Carbiolice, we believe that complementary solutions are necessary to fight effectively against white pollution.

52% of plastic packaging is indeed difficult to recycle because they are too small, too thin or soiled. **Compostable plastic packaging is an alternative among others** to improve such products end of life.

Every day, we are 25 people committed to design new solutions for sustainability.

After 7 years of research, we have developed an innovative and universal solution, named **Evanesto®**, a powerful additive, based on an enzyme that will make all PLA-based compounds fully compostable.

With **Evanesto®** inside, a new generation of products become fully compostable in industrial and domestic composting conditions. These upgraded materials help the collection of food waste and generate value through composting or methanization.

We are convinced that plastics can be useful without destroying the planet !"



Nadia AUCLAIR,
Chief Executive Officer
of Carbiolice

Carbiolice, a 15 years expertise in biopolymers with industrial experience

2006

Set up of an **industrial line of biodegradable compounds** by **Limagrain Ingredients**.

2012

CARBIOS, the inventor and owner of the enzymatic biodegradation of plastics launched **Thanaplast™**, the **collaborative research project** with different academic and industrial partners such as **Limagrain Ingredients**. The success of this project gave birth to **Carbiolice** a few years later...

2016

Creation of Carbiolice, committed and experienced start-up for **plastic biodegradation**.

2019

Signature of a structuring development and supply agreement with **Novozymes**, world leader in enzymes production, supporting the **launch of Evanesto®**.

Carbiolice is the fruit of the shared, complementary ambitions of **CARBIOS**, a green chemistry company developing enzymatic technologies, **Limagrain Ingredients**, a global seed company, and the investment fund **SPI**, managed by **BPIFRANCE**.



Carbiolice acts for biodegradability, in every step of product lifecycle

☉ 25 committed team members

☉ ISO 9001 certified



R&D

☉ Our resources

1 PhD and 5 engineers with expertise in biopolymer formulation, application development, norms and intellectual property
Analytical lab in our industrial site

☉ Our support

Support for technical specification
Internal tests for composting

PRODUCTION

☉ Our resources

5 experienced technicians running our industrial facility and process development on pilot lines (blowing extrusion, thermoforming...), dedicated to cover clients applications

☉ Our support

Samples production
Production troubleshooting
Industrial know-how transfer and monitoring

BUSINESS AND COMMUNICATION

☉ Our resources

Multidisciplinary skills and experience in polymer business, communication and business development

☉ Our support

Key account management and partnerships
Business case construction
Logistics
Institutional and clients communication

CUSTOMER SUPPORT

☉ Our resources

Expertise and experience in polymers formulation, design of experiment and business development

☉ Our support

Pre-sales and after-sales support
Requirements identification and recommendation
Test, production and follow-up

Enthousiasm



Collaboration



Integrity



Respect



CARBIOLICE INNOVATION

EVANESTO® an enzymated concentrate to make PLA products FULLY COMPOSTABLE

PLA : A bio-polymer substituting petroleum-based plastics (PS, PP, LDPE)



100% BIOBASED

Made from renewable resources such as sugarcane



BIODEGRADABLE

According to EN 13432 in industrial composting



REDUCED CARBON FOOTPRINT

Versus traditional oil-based plastics



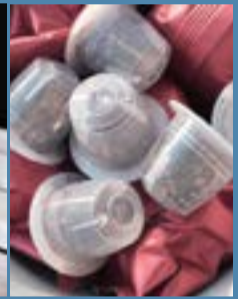
VARIOUS APPLICATIONS

offering equivalent physical and chemical features to traditional plastics

FILMS



PACKAGING



EVANESTO® inside improves plastic circular economy:



BIO- -DEGRA- DABILITY IS THE FUTURE

CARBOLICE is a meaningful french joint-venture established in 2016, based on the shared and complementary ambitions of CARBIOS, a green chemical company developing enzymatic technologies; of the SPI investment fund operated by Bpifrance; and Limagrain Ingredients, a global functional cereal ingredients company.

Its aim is to design, produce and commercialize **patented solutions that speed up compostability of biobased products** for single-use plastics and packaging, to achieve zero waste and provide an answer to sustainable development issues.

CARBOLICE'S COMMITMENTS



Carbiolice has endorsed the statement made by the Ellen MacArthur Foundation which advocates the ban of oxo-degradable plastic packaging throughout the world and has signed up the New Plastics Econ's Global Commitment to help eliminating plastic pollution.



CARBOLICE

Biodegradability is the future

ZAC de La Gravière - 4 Rue André Messager - 63200 Riom - France - Tél. : +33 (0)4 73 33 03 00

CARBOLICE SAS - SIREN Number 820 924 801

Clermont-Ferrand Trade and Companies Registry

www.carbiolice.com

