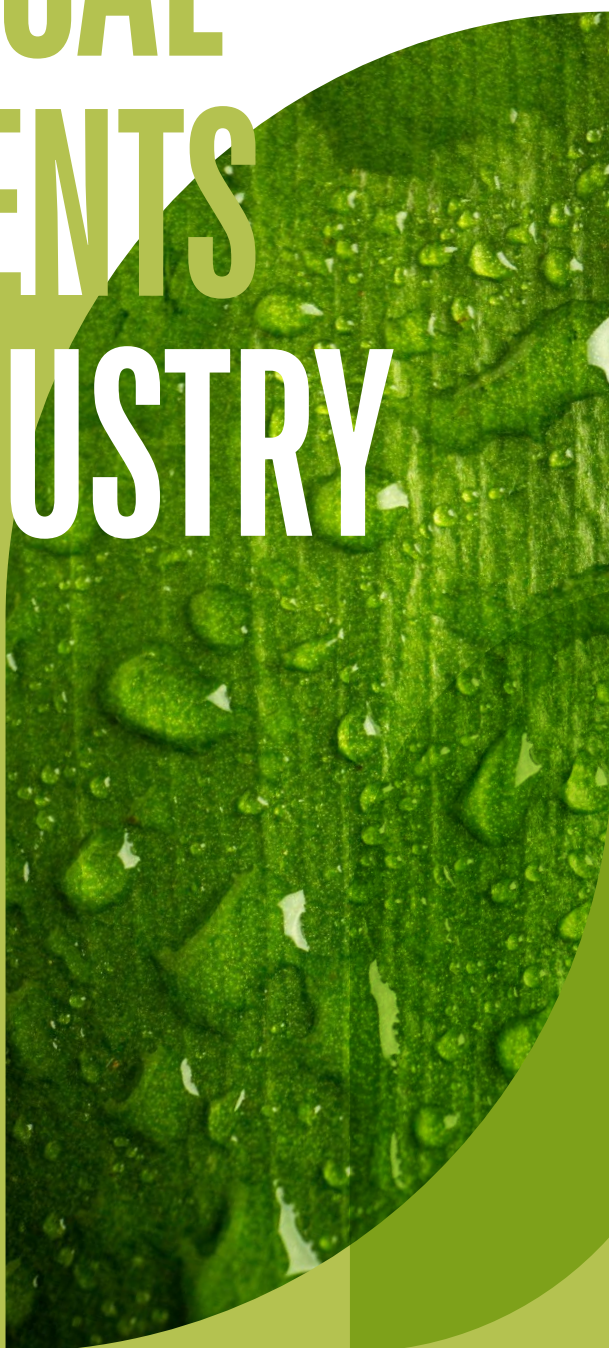




BIOTECH
BIOTECNOLOGIE PER L'AMBIENTE

BIOLOGICAL DETERGENTS FOR INDUSTRY

Technology that
imitates Nature
to surpass it





WHO WE ARE

We believe in Biology **We trust in Technology**

We have always been advocates of this idea: nature can be just as effective as chemistry. In the industrial cleaning of mechanical components, this is no small detail.

Of course, we know that some myths are hard to break, but with over ten years of experience, we can confidently say that our industrial detergents and biological products, 95% biodegradable, offer superior performance and a lower environmental impact compared to traditional chemical products.

A matter of Know-How

01 The know-how gained from day one has allowed us to design effective natural detergents for both washing plants and situations which requires the decontamination of industrial areas and plants.

02 Always by our clients' side — solid companies throughout the national territory — we work with them to develop new natural water-based cleaning products and detergents, providing technical support for their activities.

A constantly growing Trend

It is a fact: organic products applied to the metal manufacturing and mechanical industry have been in constant growth for over a decade.

The rise in environmental awareness and the integration of sustainable practices in industrial processes make Biotech an essential ally. We harness the power of natural surfactants and are among the leading promoters of development in the biological detergents sector.

Biotech achieves these significant results thanks to its daily work methodology. The dedication, expertise, and precision of the management team are combined with the experience of highly qualified designers, who continuously work on improving the production process.

This includes preliminary analysis, technical and economic evaluation, gradual system implementation, commissioning, and operational process cycles for each requested application.

03 We invest significant resources in Research & Development. Our cleaning solutions leverage the power of the most advanced biotechnologies and their constant improvements.





THE ADVANTAGES OF BIOTECH PRODUCTS

QUALITY

Significant improvements have been achieved in the quality of various types of metallic materials (steel, aluminum, cast iron, alloys, etc.) as well as in plastics in general, which are often contaminated with emulsifying, cutting, quenching, stamping, and protective oils.

The level of detergency achievable varies significantly based on the needs of the user company and is fully comparable to other technologies available on the market.

For each application, Biotech Srl conducts a detailed analysis of customer requirements and the systems in use to identify the most efficient product and the most suitable application methodology.

ECOSYSTEM

The environmental benefits are the true strength of our technology and are reflected in:

- No risk in storage, handling, or use.
- Zero impact on health and the environment.
- No harmful volatile emissions.
- Significant improvements in the condition of washing systems.
- Notable reduction in disposal waste.
- Significant decrease in water use.
- Strong reduction of the pollutant load in treated waste.

COSTS

For a proper economic evaluation, it is crucial to analyze the overall management costs of the entire washing process for each individual facility.

While a unit of biological product costs more than a unit of chemical product, its use generates an overall economic benefit ranging from 30% to 70% (on average, 50%).

The main factors influencing this cost savings include:

- Reduction in the amount of used product.
- Lower operating temperatures.
- Longer lifespan of washing solutions.
- Reduced maintenance and cleaning of equipment.
- Lower volume of waste for disposal.
- Decreased pollutant load in treated waste.

+ 25% DILUTION

Biotech solutions, while performing the same task, require a lower amount of product compared to chemical competitors.

- 50% COSTS

Our water-based solutions generate an average savings of nearly 50% compared to chemical products used for the same purpose. In some cases, this savings exceeds 70%.

- 95% ENVIRONMENTAL IMPACT

Biotech products are made from surfactants derived from organic components, making them safe for the environment and eco friendly.

- 100% TEMPERATURE

Biotech formulas operate at significantly lower energy compared to traditional products. In many cases, the temperature is reduced to ambient levels.

APPLICATION SECTORS



Steel & Cast Iron

Biotech products for steel, generally alkaline, are tailored to the material's processing stage and the type of contaminant to be removed.

They are used in various phases, from inter-operational stages – where the required cleaning quality is lower – to final washes before assembly, shipping, heat treatment, nitriding, coating, and more, where near-total decontamination is necessary.

Special attention is given to protective components against oxidation, ensuring high performance without environmental or safety risks (safety data sheets free of hazard and risk symbols).



Aluminium

Our aluminium products, ranging from neutral to alkaline, are formulated based on the alloy being treated and the type of contaminant to be removed.

Our formulas do not contain components that damage or deteriorate materials, eliminating the need for additional buffering agents to protect the surfaces made of aluminium.

They are used in various phases, from inter-operational stages (where the required cleaning quality is lower) to final washes before assembly, shipping, surface treatments, and more, where near-total decontamination is necessary. They are also suitable for high-pressure washing (100 to 300 bar) without foam formation.



Yellow Alloys

Biotech products for yellow alloys can be acidic, neutral, or alkaline, depending on the type of contaminant to be removed.

Our formulas do not contain components that damage or deteriorate materials, eliminating the need for additional buffering agents to protect brass surfaces.

Special attention is given to protective components against oxidation, ensuring high performance.



Plastics

Biotech products are also used for cleaning other materials such as titanium, magnesium, zamak, ceramics, plastics, and more. They are tailored based on the material and the type of contaminant to be removed.





Nature offers countless gifts, even in specialized fields such as industrial cleaning.

It is up to us to use them in the best possible way.

Sofia del Lago
Founder

+60%

Economic Return
Biotech vs. Traditional Product Comparison
in Energy Consumption
For more details: www.biotech-srl.it/en/compare

58%

Economic Return
Biotech vs. Traditional Product Comparison
in Disposal and Bath Replacement
For more details: www.biotech-srl.it/en/compare

THE PRODUCTS

At the core of our products:

Science and Nature

All our industrial cleaning detergents are based on the alliance between Science and Nature.

Ongoing research in the field of biotechnology has led us to develop cleaning solutions that preserve

Environment, Safety, and Health.

In fact, it is through the natural hydrolysis process of specific marine algae, combined with various organic compounds, that we obtain the alginates at the core of our products water-based detergents highly suitable for cleaning both large and small metal or plastic components.

01

Biotech biological detergents come in liquid form, with a slightly soapy texture, odorless, and with a variable color depending on the batch and product.

02

Our products do not require special precautions for storage or handling and have a long shelf life. They can be used in all existing systems (both low and high pressure) and on all types of metals and plastics.

03

They do not require hazard labeling or risk phrases, as they have no implications for safety and health factors. Their use minimizes risks for both the customer and end operators.

- ✓ Completely natural
- ✓ Biodegradable
- ✓ Highly efficient
- ✓ No usage precautions required
- ✓ Non-toxic
- ✓ Not harmful
- ✓ Non-corrosive
- ✓ Non-flammable

116 - ALGITECH CST

40 - 70 °C 2 - 5%

- 100% natural degreaser with low alkalinity pH for mechanical parts
- Cleans hydrocarbons and derivatives, grease, and oils
- For spraying systems, ultrasonic cleaning, rotary baskets, and hydrokinetic systems
- **Rust protection and anti-corrosive properties**

172 - ALGITECH LO

40 - 70 °C 2 - 5%

- Industrial degreaser and mechanical parts cleaner
- Cleans hydrocarbons and derivatives, grease, and oils
- For spray booths, washing tunnels, ultrasonic systems, and immersion systems

C209 - ALG STANDARD

40 - 70 °C 2 - 5%

- 100% natural degreaser, solvent for mechanical parts and surfaces
- Cleans hydrocarbons and derivatives, grease, oils, and pastes
- Slightly alkaline pH
- For spraying systems, ultrasonic systems, hydrokinetic systems, and brush washers
- Also suitable for no-rinse applications

1130 - ALGITECH ALL

40 - 70 °C 2 - 5%

- 100% natural industrial degreaser or cleaner for mechanical parts
- Cleans hydrocarbons and derivatives, greasy substances, and oils
- Washing systems: spray booths, washing tunnels, ultrasonic systems, and immersion systems

LEGEND

Aluminium	Steel	Cast Iron	Plastics	Brass
L Aluminium Alloys	X Stainless Steel	Iron	Aluminium + inserts	Yellow Alloys

150R - ALGITECH TSW PLUS

40 - 70 °C 2 - 5%

- Cleans hydrocarbons and derivatives, grease, and oils
- For spraying systems, ultrasonic cleaning, rotary baskets, and hydrokinetic systems
- **Attention: does not provide oxidation protection for ferrous materials**

1277 S - ROP DX / S

40 - 70 °C 1 - 5%

- Industrial degreaser
- Cleans hydrocarbons and derivatives, grease, oils, and painted parts
- **Rust protection and anti-corrosive properties**
- For spray booths, washing tunnels, ultrasonic systems, and immersion systems

1500 - BIOSOLVENT

40 - 70 °C 1 - 5%

- 100% natural industrial degreaser or process cleaner for mechanical parts
- Cleans hydrocarbons and derivatives, grease, oils, and painted parts
- Washing systems: spray booths, washing tunnels, ultrasonic systems, and immersion systems
- **Rust protection and anti-corrosive properties**

1135 - ALGITECH ALL SF

40 - 70 °C 1 - 5%

- Industrial degreaser / mechanical parts cleaner
- Cleans hydrocarbons and derivatives, greasy substances, oils, and pastes
- For industrial washing systems, immersion washers, and ultrasonic systems

180 - ALGITECH TSW DXSF

40 - 70 °C 2 - 5%

- Alkaline detergent
- Cleans hydrocarbons and derivatives, grease, oils, and pastes
- For spraying systems, ultrasonic systems, hydrokinetic systems, and brush washers
- Also suitable for no-rinse applications
- **With protection for ferrous materials**

1582 - PROT DX

40 - 70 °C 1 - 5%

- Corrosion inhibition agent
- For washing systems with water recirculation and cleaning processes, mechanical parts washing machines, degreasing tanks, ultrasonic baths, etc.
- **Attention: requires a dosing system**

1810 - ALGITECH TRK

40 - 70 °C 2 - 5%

- Low-foam industrial degreaser for mechanical parts and surfaces
- Suitable for pre- and post-heat treatment and for cleaning grease, hydrocarbons and derivatives, and oils
- Washing systems: spray booths, washing tunnels, and immersion systems
- **Rust protection and anti-corrosive properties**

1583 / A - PROT DX ALL

40 - 70 °C 2 - 5%

- Corrosion inhibition agent
- For washing systems with water recirculation and cleaning processes, mechanical parts washing machines, ultrasonic baths, degreasing tanks, washers, etc.
- Dry the parts after treatment with the product.

LEGEND

40 - 70 °C	Operating Temperature
2 - 5%	Dilution

1165 - RIM RUST

40 - 70 °C 2 - 5%

- Product for removing lime and rust, as well as surfaces encrusted with lime and iron oxides
- For industrial circuits and installations of any type
- Washing systems: spray booths, tunnels, hydrokinetic and ultrasonic systems

1580 - PROTECTIVE

40 - 70 °C 2 - 5%

- 100% natural corrosion inhibition agent
- Washing systems: spray booths, washing tunnels, ultrasonic and immersion systems

1600 - ALGITECH AL

40 - 70 °C 2 - 5%

- Industrial degreaser
- Cleans hydrocarbons and derivatives, grease, and oils
- For washing systems such as spray booths, washing tunnels, ultrasonic systems, and immersion systems
- **Rust protection and anti-corrosive properties**

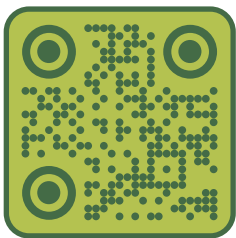


We care about
the future of the planet
and the one of
the new generations.

The entire Biotech team



BIOTECH
BIOTECNOLOGIE PER L'AMBIENTE



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Mechanics