

Industrial Product Range

Through the power of fermentation, Jungbunzlauer is able to create high-quality raw materials for a variety of industrial applications. Utilising microorganisms, renewable starting materials derived from corn are transformed into a variety of compounds. From organic acids to biopolymers, we strive to service our customers with the highest quality ingredients in order to make their products more safe and effective.

Paints and Coatings

Jungbunzlauer is proud to offer bio-based solutions for the paints and coatings industry.

Rheological Modification

Xanthan Gum is a hydrocolloid with excellent thickening capabilities. Jungbunzlauer now offers a new grade of xanthan gum for the paints and coatings industry, perfect for the stabilisation of water-based coatings without a compromise in sag resistance, flow, and leveling.

- Useful for both spray and brush/roller formulations
- Excellent compatibility with other ingredients
- Improved in-can stability
- Reduced spattering



Coalescing Agents

CITROFOL® citric acid esters are the non-VOC, bio-based alternative for classical coalescing agents which improved characteristics of the final coating.

- Zero VOC, permanent plasticiser
- improved workability compared to classical coalescents
- Environmentally friendly and toxicologically safe





Agriculture

Jungbunzlauer provides a variety of green solutions for agricultural product formulators to ensure applications always maintain their proper function and effectiveness.

Adjuvants for...

- pH adjustment and maintenance
- Control of water hardness
- Spray improvements for drift control and better cling
- Seed coatings

Jungbunzlauer also offers a variety of **organic acid-based mineral salts** to enhance fertilisers by providing essential nutrients.

Sealants and Adhesives

CITROFOL® citrate esters have demonstrated to be effective bio-based, non-phthalate plasticisers in sealant and adhesive applications.

In particular, **CITROFOL® BII** (tributyl O-acetylcitrate) is food contact approved and has effectively been utilised in water-based acrylic sealants, polyurethane sealants, vinyl acetate adhesives, and other compatible resins.

- Non-VOC and odourless
- Excellent compatibility
- Environmentally friendly and toxicologically safe



Fire-Fighting

Jungbunzlauer organic salts have shown effectiveness in applications related to fire safety from the use of **potassium lactate** or **tripotassium citrate** in fire extinguishers to the use of **xanthan gum** in alcohol resistant aqueous film-forming foam concentrates.

Tripotassium citrate is also a very promising natural alternative flame retardant for solid wood.

- Proven effective and easy to use
- Fully biodegradable and non-toxic flame retardant

Water Treatment

Jungbunzlauer also offers natural-based solutions for water treatment. Safe food ingredients can be utilised as powerful tools to ensure that wastewater is properly treated.

Xanthan gum has shown effectiveness as a flocculation aid in order to improve clarification and particle removal of surface water.

- Highly effective at low doses
- Low sensitivity to pH changes
- Good stability in the presence of cations

Organic acids such as **citric acid** and **gluconic acid** have also shown to be effective in water treatment due to their chelating abilities.



Headquarters **Jungbunzlauer Suisse AG**

4002 Basel · Switzerland · Phone +41 61 295 51 00 · headquarters@jungbunzlauer.com · www.jungbunzlauer.com

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