

DESCRIPTION OF THE TECHNOLOGY

Biomimetic Sweden AB (www.biomimetic-sweden.com) has developed a series of organic products, based on a unique composition of food-approved chemical substances together with different cereals.

The ingredients occur naturally in berries, fruits, grapes and cereal products, among other organic products.

The products are developed with consideration of concentrations and composition that aim to be safe for humans when used as intended.

The technology has a wide potential area of application, including in:

- **Preventive fire protection** by treating materials to reduce the risk of ignition.
- **Active firefighting** where the formulations can help to limit or extinguish fires (provided this is verified through standardised tests).
- **Flame retardant impregnation of natural fibers**, such as cotton, hemp and jute, to improve resistance to ignition when exposed to open flame.
- **Protection against microbial growth**, including black mould, algae and fungi.
- **Protection against rot in sawn timber** when stored outdoors unprotected for at least six months, according to completed trials tested by the Swedish accredited test and scientific institute - **RISE** (www.ri.se) on behalf of the Swedish saw mill **Stenvalls Trä AB** (www.stenvalls.se).