

1. Name of product and the company

Name of product	OC-BioBinder™ Pine 1306
Intended use of product	Improve mechanical properties of fiber-based material. For industrial use.
Company	OrganoClick AB Linjalvägen 9 SE-187 66 Täby Sweden
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2. Product description and uses

The product's intended use is to improve mechanical properties polyester-based materials and to enhance material stiffness.

3. Constituents

The product is composed of an aqueous formulation of modified biopolymers and natural plant compounds.

4. Physical and chemical properties

Form	Turbid liquid, transparent – can become cloudy with time
Colour	Yellow, dark yellow
Odor	Faint
pH-value	2.0 – 2.2
Viscosity	30-100 mPas (at 30 rpm, LV1, 23°C).
Solid content	20-22 % (105 °C, 20 h)

5. Handling

Avoid breathing mist/vapours/spray. Can be slippery if spilled on the floor, so avoid walking through it. Ensure adequate ventilation. Normal precautions taken when handling chemicals should be observed See the Safety Data Sheet for further information.

6. Feasible fibres and material

OC-BioBinder™ Pine is optimized for being used together with polyester-based nonwoven and textile materials.

7. Usage instructions

The following usage instructions standard of the OC-BioBinder™ Pine product.

1. **Apply the product as concentrated or diluted to the material by impregnation, spraying, coating or foaming.**

To find the optimal add-on for a specific material, apply different add-ons within the range above during separate test runs and then evaluate the material's performance. Foaming is gained with standard foaming procedures and foaming chemicals.

2. **Dry the treated material at 100 - 180 °C until completely dry.**

Dry strength is achieved at 120 °C and above.

The treated material may turn yellow/brown if exposed to temperatures above 100 °C for too long time.

8. Cleaning of Equipment

After using the product all equipments shall be properly cleaned by scrubbing them with water and dishwashing liquid. Equipment that is not possible to scrub (e.g. pipes and spraying nozzles) shall be flushed thoroughly with water.

9. Storage

Store in tightly closed original container in a well ventilated area. The binder is best stored at room temperature or colder (above freezing).

The information in this technical data sheet consists of guidelines from the OC-BioBinder™ X2XX Safety Data Sheet, OrganoClick AB test results, accumulated knowledge and experience with the product. The information is not to be used as basic data or verification for other tests or systems. OrganoClick AB does not take responsibility for any other usage areas or any misuse of the OC-BioBinder™ Lily product. The latest edition of this technical data sheet can be requested from OrganoClick.