Technical data sheet
OC-BioBinder™ Clover 1151T

1. Name of product and the company

Name of product	OC-BioBinder™ Clover 1151T
Intended use of product	Improve mechanical properties of fiber-based material. For industrial use.
Company	OrganoClick AB Linjalvägen 9 SE-187 66 Täby Sweden
Phone number	+46 (0)8 674 00 80
Email	info@organoclick.com
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2. Product description and uses

The product´s intended use is to improve mechanical properties such as dry strength of fiber-based materials.

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
Colour	White, opaque
Odor	Faint
pH-value	4-5-5.5
Viscosity	500-800 mPas (at 200 rpm, LV4, 24°C). The viscosity will decrease if stirred and/or heated.

5. Handling

Avoid contact with skin and eyes. 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.

5. Feasible fibres and material

OC-BioBinder™ Clover is optimized for being used together with cellulosic fibers in nonwoven material, airlaid paper and other fiber-based materials.

6. Usage instructions

The following usage instructions standard of the OC-BioBinder™ Clover product is performed on cellulosic airlaid material.

1. ***Dilute the product with water to a solid concentration less than 10 %.***
   Initial solid concentration is 38-39 %
   Generally, the strength will be higher if diluted to less than 10 % since this gives a better spreading of the binder during the application. Make it a habit to always stir before use. If dilution is needed, it is done with hot or cold water followed by stirring.

2. ***Apply the diluted product to the material by impregnation, spraying, coating or foaming aiming at an add-on of 4-12 g /m2 of the dry matter.***
   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.

3. ***Dry the treated material at 100 - 180 °C until completely dry.***
   Dry strength is achieved at 100 °C and above.
   The treated material may turn yellow/brown if exposed to temperatures above 100 °C for too long time.

4. 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.

5. Storage

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

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