

### 1. Name of product and the company

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Name of product	OC-aquasil Tex™ 200/N2
Intended use of product	Water repellent treatment of fiber-based materials. Intended 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
Internet	www.organoclick.com

### 2. Product description and uses

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The product's intended use is to confer water repellent properties to fiber-based materials, such as nonwoven (airlaid and wetlaid) and woven textiles, especially those containing cellulosic and/or polyester fibers. The water repellent effect is not durable to laundering. The product is completely free of persistent substances such as fluorocarbons (PFAS) as well as hazardous compounds such as isocyanates.

### 3. Physical and chemical properties

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Form	Liquid
Colour	Milky white
Odor	Soap-like
pH-value	4 – 5
Viscosity	1.3 – 3.2 mPa.s (SC4-18/200rpm)

### 4. Handling

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Avoid contact with skin and eyes. Ensure adequate ventilation, also in the drying/curing equipment. Normal precautions taken when handling chemicals should be observed. See the Safety Data Sheet for further information.

## 5. Feasible material and treatments

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The product works well on materials based on natural and synthetic fibers, e.g., cellulosic (e.g viscose rayon, pulp, cotton), polyester (e.g. PET, PBT), polyamide (PA6 and PA6.6) polylactic acid (PLA), metaaramid (e.g. Nomex) etc. In order to confer good water repellent properties, the product shall be used on material with a minimum of other chemical surface treatments. If other chemical surface treatments are necessary, the product shall always be the outermost (last applied) treatment.

OrganoClick AB does not guarantee that one treated material will perform equally well as another.

## 6. Usage instructions

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The aqueous formulated product shall be applied to the material as an after-treatment.

### **Small scale tests**

Prior to using the product on a full industrial scale, the product shall be tested on small samples of the material in order to evaluate the required wet uptake.

### **Preparation**

The product shall be stirred or shaken thoroughly prior to applying it to the material or in conjunction to the application. The product shall be applied to the fabric within a few minutes from the stirring/shaking. In case the time has exceeded a few minutes, the product shall be stirred or shaken again.

The product normally does not have to be diluted with water, as long as the small scale tests have shown an acceptable look and performance of the treated material. If the formulation still needs to be diluted with water, it should be consumed within two weeks as the stability may be reduced.

### **Application**

The application is preferably done by spraying the formulation onto the material with a wet pick-up of between 10-50 g/m<sup>2</sup>.

If multiple spray applications on the same area are required, they should be performed within a short time frame (minutes) in order for the first applied layer not to dry out and make the surface water repellent and thereby making the application of the second layer more difficult.

The exact wet pick-up depends on the material and on the required performance. The wet pick-up should always be tested on small samples prior to full industrial implementation. In case the wet pick-up is not sufficient for a desired performance, please contact OrganoClick AB for recommendations on how to increase the wet pick-up.

Other means of application including padding, i.e. impregnating the material in a bath and squeezing out the excessive liquid, is also possible.

### **Curing**

The treated material must be dried and cured in order for the water repellent properties to show.

Drying/curing is recommended at an elevated temperature of 120 – 150°C for 30 – 180 s, which confers an immediate water repellent effect.

The exact temperature and time depend on what the material can withstand and on the capacity of the drying unit. A higher temperature is required if the material passes swiftly through a short drying unit. The exact temperature and time shall be evaluated by conducting small scale tests prior to large scale curing. Generally the curing temperature should not exceed 160 °C.

## **7. Cleaning of Equipment**

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After using the product all equipment shall be properly cleaned by scrubbing them with water, preferably containing dishwashing liquid or equivalent. The cleaning shall be performed quickly after the equipment has been used so the product does not have time to dry out. Equipment that is not possible to scrub (e.g. pipes and spraying nozzles) shall be flushed thoroughly with water and possibly also with an organic solvent such as ethanol, acetone or isopropanol.

## **8. Storage**

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Store in tightly closed original container in a well ventilated area in 15 - 30 °C.

The information in this technical data sheet consists of guidelines from the OC-aquasil Tex™ 200/N2 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-aquasil Tex™ 200/N2 product. The latest edition of this technical data sheet can be requested from OrganoClick AB.