



Nouryon

Nouryon's oxidizing agents for the textile industry

Our Eka[®] HP (hydrogen peroxide), Eka[®] SC (sodium chlorate) and Eka[®] ClO₂ (chlorine dioxide) are versatile chemicals; they can be used to brighten and decolorize natural/cellulosic and recycled textile fibers to produce high quality and sustainable textiles.

Bleaching/decolorization of textile fibers

The purpose of textile fiber bleaching/decolorization is to remove the natural color/dyes and purify the fibers for further processing i.e., spinning, dyeing and printing.

Eka[®] HP and Eka[®] ClO₂ are both strong oxidants that can be used in bleaching/decolorization of cellulosic fibers to be used in textiles.

Examples of applications:

- Virgin natural textile fibers (cotton, flax, wool, silk)
- Dissolving pulp to be used for production of i.e., viscose and lyocell
- Other wood/cellulose-based textile fibers
- Recycled textile fibers

Waste effluent management

Eka[®] HP is a "pure chemical" that is suitable to use in environmental applications; the decomposition only forms two products – oxygen and water. Eka[®] HP can be used as is or in an advanced oxidation process, for example Nouryon's MicrOx[™] hydrogen peroxide in combination with the Advanox[™] ultraviolet reactors from Van Remmen UV Technology.

Examples of applications:

- Removal of organic material (COD and BOD) in effluents
- Degradation of dyes
- Flue gas treatment (Eka[®] HP/Eka[®] ClO₂)



Get in touch with our experts!

Product availability

- **Eka[®] HP** stabilized hydrogen peroxide is available globally in several product grades (aseptic, chemical, food, technical) and concentrations (35%, 49%, 59%, 70%). It is delivered in bulk (ISO containers, railcars, and tanker trucks).
- **Eka[®] SC** sodium chlorate is available both in crystal and liquid form and is delivered in bulk (railcars and tanker trucks) and big bags/supersacks. Sodium chlorate is used to generate chlorine dioxide.
- **Eka[®] ClO₂** chlorine dioxide is generally produced on site, stored, and typically fed as an 8-11 grams per liter aqueous solution to the desired application point. We offer several best available techniques for ClO₂ generation.

Nouryon's Value Proposition

Ambitious Innovation

Nouryon is dedicated to developing new applications that deliver value for our customers and society and help solve the sustainability challenges we all face, today and in the future.

Value-Chain Sustainability

Hydrogen peroxide is well-known to be environmentally friendly as it decomposes into oxygen and water. Nouryon's hydrogen peroxide is produced in a sustainable and resource efficient process. For our sodium chlorate plants we strive to locate them where renewable energy sources are available. We continuously evaluate our carbon footprint and search for ways to enhance our circular economy.

Nouryon has been awarded a Platinum rating by EcoVadis in 2022 for its sustainability achievements. This rating places Nouryon in the top 1% of companies then assessed by the global sustainability ratings provider.