

# Eka HP T (Technical Grade)

## Hydrogen Peroxide

Eka® HP T (Technical Grade) hydrogen peroxide is a clear, colorless and aqueous solution. It is available in a number of different concentrations. Please contact your Nouryon representative to determine which product meets your requirements.

**CAS number**  
7722-84-1

**Molecular weight**  
34.02

**Molecular formula**  
 $H_2O_2$

### Applications

The pulp and paper industry uses hydrogen peroxide as a bleaching agent. It is also a common bleaching agent used in the textile industry. Hydrogen peroxide is used in the manufacture of both inorganic and organic chemicals and for the surface treatment of metals such as pickling. Examples include the manufacturing of percarbonates, perborate, peracetic acid, a wide variety of organic peroxides and propylene oxide. Hydrogen peroxide is a natural choice for environmental remediation and wastewater treatment due to its effectiveness and harmless degradation products. This grade of Eka® HP can be utilized as a biocidal active substance which makes it useful in various water disinfection applications. Eka® HP can also be used as NO<sub>x</sub> and SO<sub>x</sub> control agent in flue gas treatment for various industrial segments. Please contact your Nouryon representative to ensure that you obtain the correct product for your particular application.

### Packaging and transport

Please refer to the current SDS for the latest transportation regulations for hydrogen peroxide. Eka® HP is classified as dangerous goods and consequently transportation and packaging design must therefore adhere to all applicable transportation regulations. Bulk shipments of hydrogen peroxide are available in tank trucks, rail car or ISO containers. Transportation may take place by road, railway or sea.

### Safety and handling

Please refer to the current SDS (Safety Data Sheet) for preventive protection and first aid response. Hydrogen peroxide is a very reactive oxidizing chemical and must be handled carefully. Solutions should be stored in their original containers until ready for use. Hydrogen peroxide must never be returned to its original container or tank once it has been removed. Hydrogen peroxide is neither flammable nor combustible but can sustain combustion. All equipment that come into contact with hydrogen peroxide must be extremely clean and made of compatible materials such as glass, stainless steel, aluminum or HDPE. Hydrogen peroxide must never be placed in a closed, unvented container or pipe. Additional information on the handling of Eka® HP is available in the Hydrogen peroxide product information manual that can be obtained from your Nouryon representative.

### Mandatory protective equipment

Because hydrogen peroxide should never come in contact with organic materials like cloth and leather, it's imperative that workers handling the chemical always wear the appropriate protective clothing. Please check the SDS for specific product details.

Measure 1	A protective suit (preferred anti-flammable treated) made of vinyl, neoprene, or PVC.
Measure 2	A pair of vinyl or neoprene boots
Measure 3	Protective goggles that fit snugly over the eyes.
Measure 4	Vinyl or neoprene gloves
Measure 5	A hard-hat with a full-face shield

## **Additional information**

Production at all Nouryon sites is in accordance with certified management systems. To receive a copy of the current certificate(s) contact your Nouryon representative. Nouryon representatives will be pleased to discuss in detail the safe handling, application and benefits of Eka® HP. To arrange your personal interview, please contact your Nouryon account representative. Call one of the numbers below.

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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The Nouryon logo consists of the word "Nouryon" in a bold, sans-serif font. The letter "N" is stylized with a vertical bar on the left and a diagonal stroke on the right, creating a unique shape.