

Eka Facts

Eka HP T70

Hydrogen Peroxide solution

General

Eka HP hydrogen peroxide solutions are clear, colorless and water-like in appearance; they can be mixed with water in any proportion. At high concentration, it has a slightly pungent or acidic odor.

Technical Grade (denoted by the T in the product name) Hydrogen Peroxide is specially formulated with a proprietary tin-free stabilizer system for enhanced stability under long-term bulk storage conditions. These solutions also contain a corrosion inhibitor for stainless steel storage and handling equipment.

Applications

The pulp and paper industry uses hydrogen peroxide as a bleaching agent and as a reducing agent in the production of chlorine dioxide. 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.

The gentle effectiveness and harmless by-products of hydrogen peroxide have made it a natural for environmental remediation applications and treating industrial and municipal wastewater. Its bactericidal properties make it useful in various water and food disinfection applications, as well.

Hydrogen peroxide, under a strict marketing authorization is also used to treat parasites in Aquaculture - please contact your Nouryon representative to ensure that you obtain the correct product for your particular application.

Typical properties

| | |
|---------------------------------------|---------------|
| H ₂ O ₂ content | 70 - 71 wt. % |
| pH | <3 |

Other characteristics

| | |
|--------------------------------|------------------------|
| Active oxygen | 32.9 wt. % |
| Specific gravity @ 20°C (68°F) | 1290 kg/m ³ |
| Freezing point | -40°C (-40°F) |
| Boiling point | 126°C (259°F) |
| Viscosity (approx.) | |
| @ 0°C (32°F) | 1.93 cP |
| @ 20°C (68°F) | 1.24 cP |
| Molecular weight | 34.02 |
| CAS Number | 7722-84-1 |

Safety

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, and any material removed from its original container must not be returned to it. The pure material, as well as its aqueous solutions, is nonflammable.

Equipment used to handle hydrogen peroxide must be 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.

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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. Appropriate personal protective equipment includes all of the following:

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

Shipping

Please refer to the current SDS for the latest transportation regulations for hydrogen peroxide.

Eka HP is classified as hazardous 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 or rail car quantities. Transportation may take place by road, railway or sea.

| Proper Shipping Name | Hydrogen Peroxide |
|-----------------------------|-------------------|
| UN number | 2015 |
| Transportation Hazard Class | 5.1 |
| Packaging group | I |

Quality

Production at all Nouryon sites is in accordance with certified management systems. To receive a copy of the current certificate(s) please contact your Nouryon representative.

Customer Service

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, email bleaching_experts@nouryon.com or call one of the numbers below.

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