

## Eka Facts

# Eka HP C49

## 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.

Chemical Grade (denoted by the C 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

This grade is our highest purity and is designed to meet the stringent demands of customers in chemical and metal processing applications and the electronics industry.

In the chemical industry, hydrogen peroxide plays a major role part in the production of both inorganic and organic products. Examples include the manufacturing of percarbonates, perborate, a wide variety of organic peroxides and propylene oxide.

Hydrogen peroxide is a mainstay in surface treatment within the metals and electronics industry; it is used for etching, polishing and cleaning, plus it eliminates nitrogen oxide gases (NOx) in connection with nitric acid-based pickling operations.

Hydrogen peroxide is also used as a reducing agent in the production of chlorine dioxide – a bleaching agent used in the pulp industry.

### Typical properties

H <sub>2</sub> O <sub>2</sub> content	49 - 49.5 wt.%
pH	<3

### Other characteristics

Active oxygen	23.3 wt.%
Specific gravity @ 20°C (68°F)	1195 kg/m <sup>3</sup>
Freezing point	-52°C (-62°F)
Boiling point	114°C (237°F)
Viscosity (approx.)	
@ 0°C (32°F)	1.88 cP
@ 20°C (68°F)	1.17 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	2014
Transportation Hazard Class	5.1
Packaging group	II

## 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](mailto:bleaching_experts@nouryon.com) or call one of the numbers below.

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## Disclaimer

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