

INTEROX® Hydrogen Peroxide

INTEROX® Dilution Grade, 70% Technical Data Sheet

Introduction

INTEROX® Dilution Grade hydrogen peroxide (H₂O₂) is stabilized to allow large volume users dilute hydrogen peroxide on site, thus reducing freight costs. It is to be used only where storage tanks with adequate mixing systems have been installed and only with dilution water that has been approved by Solvay Chemicals, Inc.

Applications

INTEROX® 70% Dilution Grade hydrogen peroxide is used in the pulp and paper industry in bleaching chemical and mechanical pulp and in recycled pulp operations. In the textile industry, it is used as a bleach for natural and synthetic fibers and as a de-sizing agent.

Availability

INTEROX® Dilution Grade hydrogen peroxide is sold in 70% concentration and is available in bulk truck or railcar quantities from Solvay Chemicals' Deer Park, Texas and Longview, Washington plants. For more information, or to place an order, please contact Solvay Chemicals at 1-800-SOLVAY-C, 800-765-8292 or 713-525-6500.

Physical Properties

Hydrogen peroxide is a clear, colorless, slightly viscous liquid. It is slightly denser than water but is miscible with water in all proportions. Hydrogen peroxide decomposes exothermally to water and oxygen with no toxic residues. The decomposition is normally slow (< 1% / year) with no temperature rise but is accelerated by heat and decomposition catalysts such as transition metals and their compounds, strong acids, and strong alkalis. For additional information, please refer to our brochure, Hydrogen Peroxide Safety and Handling.

Typical Analysis	70%
Concentration in water, % w/w	70.0-71.0
Apparent pH	0.5 - 1.0
Appearance	Clear, colorless liquid



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Interox, Fluorides & Minerals

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Storage and Handling

- Store hydrogen peroxide in the original vented container, upright, in a cool, ventilated area where it is protected from damage, or in bulk storage tanks made from approved alloys of aluminum or stainless steel.
- Do not store other chemicals, fuels, or combustible materials near hydrogen peroxide.
- Never return unused hydrogen peroxide to the storage container.
- When empty, rinse all peroxide containers thoroughly with clean water before discarding.
- Use only approved material for pumps, piping, and hoses.

Safety

- Persons working with hydrogen peroxide should be familiar with personal protective equipment, first aid measures and the proper safety and handling procedures. Consult the Material Safety Data Sheet (MSDS) for appropriate information.
- Prevent accidental decomposition by keeping the product free of contaminants.
- Prevent fires by avoiding accidental spills. Water is the preferred method for extinguishing fires in which hydrogen peroxide is present.
- Spills and leaks should be contained, diluted with copious amounts of water and disposed of in compliance with local regulations.
- Hydrogen peroxide storage or handling areas should be equipped with a safety shower, an eyewash station, and a water hose.

First Aid

In case of product splashing into the eyes and face, treat eyes first.

- **Eye contact:** Flush eyes immediately with water for at least 15 minutes. Call a physician.
- **Skin contact:** Immediately flush skin with water while removing contaminated clothing and shoes. Call a physician if irritation persists.
- **Inhalation:** Remove the victim from the contaminated area to fresh air. Call a physician in case of respiratory symptoms.
- **Ingestion:** Consult with a physician immediately in all cases. DO NOT induce vomiting. If victim is conscious, rinse mouth and give fresh water.

Danger: Hydrogen peroxide solutions are strong oxidizers and corrosive to the eyes, mucous membranes and skin. Consult the MSDS for the appropriate Personal Protective Equipment to wear when handling hydrogen peroxide. In case of contact with the eyes, skin or clothing, flush with large amounts of water for 15 minutes. In case of ingestion, sit upright, drink large quantities of water to dilute the stomach contents and seek immediate medical attention. Product in contact with combustible materials may cause fires.

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Before using, read Material Safety Data Sheet (MSDS) for this chemical.

Solvay Chemicals, Inc.
24 hour Emergency Phone Number - 800-424-9300 (CHEMTREC[®])

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