

# INTEROX® Hydrogen Peroxide

## INTEROX® Ultra Cosmetic®, 35% Technical Data Sheet

### Introduction

INTEROX® Ultra Cosmetic® hydrogen peroxide is used when formulation stability is of the utmost concern. It contains extremely high levels of stabilizer to ensure the integrity of the peroxide as other additives are introduced into the formulation. The use of INTEROX® Ultra Cosmetic® hydrogen peroxide allows for the manufacture of formulated products requiring extended shelf life.

### Applications

INTEROX® Ultra Cosmetic® hydrogen peroxide is used in the manufacture of dilute, formulated hydrogen peroxide products for the home laundry, home cleaning and cosmetic industries. Typical products are fabric and carpet cleaners; hair care dyes, bleaches, and home permanent solutions; and certain approved dentifrice products.

### Availability

INTEROX® Ultra Cosmetic® hydrogen peroxide is sold in 35% concentration and is available in drums from Solvay Chemicals' Deer Park, Texas plant. For more information, or to place an order, please contact Solvay Chemicals at 1-800-SOLVAY-C or 713-525-6500.

### Physical Properties

Hydrogen peroxide is a clear and colorless liquid. Its density is slightly higher than water, but the product 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% per 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.

### Customer Support

For safety advice and assistance with product applications, call 1-800-SOLVAY-C or 800-765-8292. Please also reference the Resource Library on our website at [www.solvaychemicals.us](http://www.solvaychemicals.us) for safety and contact information.

Typical Analysis	35%
Concentration in water, % w/w	35.0-36.0
Active Oxygen, %	16.5-17.0
Gasometric Stability at 100°C, mL O <sub>2</sub> /min per 25 mL H <sub>2</sub> O <sub>2</sub>	< 0.3
Apparent pH	2.1-3.1



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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<sup>®</sup>)

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