

BURCO® PEROXY BASE 2

Stabilized Oxidant for Building Robust Oxidative Cleaning Formulations

BENEFITS AND FEATURES

- Stable liquid oxygen cleaner with bleaching action; significantly more stable with surfactants than are Technical, Cosmetic, or Dilution Grade hydrogen peroxide solutions
- Chlorine-free alternative for cleaning, degreasing, and stain removal when used in conjunction with surfactants such as Burcoterge HBC, Burcoterge DG-40, Burcoterge NDG-77, Burcoterge PAO-35, Burcoterge NO-313, Burco LAF-180, and Burco LAF-6
- Does not affect substrates such as fabric and asphalt shingles like chlorine-based products
- Eliminates many odors
- Promotes soil dispersion and wetting and inhibits soil redeposition
- Stable under both acidic and alkaline conditions (a pH range of 1 to 8 and an active hydrogen peroxide content of 5% by weight or less provide the greatest degree of stability)
- Alkyl phenol ethoxylate (APE) free
- VOC free
- Can be used in the formulation of "green" products compliant with Green Seal and EPA Design for the Environment (DfE) standards and similar "green" standards

TYPICAL APPLICATIONS

- All purpose cleaners and degreasers
- Deck and roof wash
- Carpet and laundry spotters
- Kitchen and bath cleaners
- Cement floor cleaners
- Transportation care products

TYPICAL PROPERTIES

Appearance at 25°C	Clear colorless liquid
pH	1.0
Specific Gravity	1.11
Density, lbs/gal	9.26
Approx. H ₂ O ₂ Content, wt %	35

FORMULATION GUIDELINES

- Burco Peroxy Base 2 is stabilized to prevent the decomposition of peroxide into oxygen and water in the presence of heat and certain organic and metallic compounds. However, stability testing with organic compounds including fragrances and surfactants should be undertaken. Exposure to metallic compounds such as iron, chromium, nickel, mercury, cobalt, lead, manganese, tin, and rust, particularly those found in filling lines and containers should be avoided.
- For optimum long term stability of formulated products, the use of deionized water is preferred. Softened water should not be used.
- Care should be taken in handling all hydrogen peroxide containing products. Please read and understand the MSDS prior to use. Burco Peroxy Base 2 and resultant final products can cause ulceration of the cornea and blindness, extreme irritation and inflammation of the nose, throat, and lungs, and bleaching, redness, and blistering of the skin.
- Formulations made with Burco Peroxy Base 2 should be kept at a pH of 8 or less to maximize long-term stability. Adjustment of pH can be carried out with caustic soda (NaOH) or caustic potash (KOH). The used of carbonate builders (such as calcium carbonate and sodium carbonate) can impair the long-term stability of the system.
- Burco Peroxy Base 2 has a pH of 1.0. As with all strong acids, one should add the Peroxy Base 2 to water rather than adding water to the acid.
- For most formulations, a safe and effective level of hydrogen peroxide is 5%, by weight.
- Mineral acids such as phosphoric acid are compatible with Burco Peroxy Base 2. Hydrochloric acid and hydrochloric acid-based systems such as Burco ART are not compatible. The evolution of chlorine gas can occur. In addition, organic acids such as citric acid and oxalic acid and sulfamic acid are incompatible.

- Chelating agents such as EDTA and NTA are not recommended as they will interfere with the stability of the system. Burco Peroxy Base 2 provides some inherent chelation ability.
- Unlike sodium percarbonate based systems that require the use of TAED for activation at temperatures near ambient, products made with Burco Peroxy Base 2 do not require an activator.
- Burco Peroxy Base 2 is compatible with surfactants such as Burcoterge CDG, Burcoterge HBC, Burcoterge DG-40, Burcoterge PAO-35, Burcoterge NO-313, Burcoterge NDG-77, Burco LAF-6, and Burco LAF-180. The used of narrow range ethoxylated alcohol based surfactants is not recommended as they increase the cost of the formulation and they provide no performance advantage.
- To increase the residence time of Burco Peroxy Base 2 formulations on vertical surfaces, an alkaline swellable thickener, Burco Peroxy Thix, can be used. Burco Peroxy Thix can maintain a stable viscosity on storage in concentrations of up to 5% active hydrogen peroxide.
- Formulation of DfE and Green Seal acceptable products should follow the guidelines published by the certifying bodies to ensure all standards are met for all materials in a given formulation.

PACKAGING NOTES

Properly formulated products produced with Burco Peroxy Base 2 will have excellent shelf lives. However, they will always evolve very small amounts of oxygen. Very low levels of gas will swell sealed containers. Vented containers should be used for packaging any formulations produced from Burco Peroxy Base 2. Contact your packaging supplier for recommendations.

AVAILABILITY

Burco Peroxy Base 2 is available in drums (500 lbs) and totes (3000 lbs).

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