

# MATERIAL SAFETY DATA SHEET



## I PRODUCT IDENTIFICATION

**MANUFACTURER'S NAME AND ADDRESS:** PROSOCO, Inc.  
3741 Greenway Circle  
Lawrence, KS 66046

**EMERGENCY TELEPHONE NUMBERS:**  
**8:00 AM – 5:00 PM CST Monday-Friday:** 785/865-4200  
**NON-BUSINESS HOURS (INFOTRAC):** 800/535-5053

**PRODUCT TRADE NAME:** Enviro Klean<sup>®</sup> BioKlean<sup>™</sup> Activator

## II HAZARDOUS INGREDIENTS

CHEMICAL NAME	(COMMON NAME)	CAS NO.	NFPA CODE	ACGIH TLV/TWA	OSHA PEL/TWA
Hydrogen Peroxide	(Hydrogen Peroxide)	7722-84-1	2,0,1,0X	1 ppm	1 ppm

## III PHYSICAL DATA

	BOILING POINT (°F)	VAPOR PRESSURE (mm Hg)	VAPOR DENSITY (Air = 1)	EVAPORATION RATE (Butyl Acetate = 1)
Hydrogen Peroxide	212°F (100°C)	23.0 @ 20°C (68°F)	Not applicable	>1

  

	SPECIFIC GRAVITY	SOLUBILITY IN WATER	APPEARANCE AND ODOR
Enviro Klean <sup>®</sup> BioKlean <sup>™</sup> Activator	1.1	Infinitely soluble	Clear, colorless liquid. Slight acrid odor.

## IV FIRE AND EXPLOSION HAZARD DATA

### EMERGENCY OVERVIEW

**Danger!** Enviro Klean<sup>®</sup> BioKlean<sup>™</sup> Activator is a strong oxidizer. Contact with other material may cause fire. Corrosive. Causes burns to skin, eyes, and respiratory tract. Harmful if swallowed or inhaled.

**FLASH POINT (METHOD):** Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Increases the flammability of combustible, organic and readily oxidizable materials.

**EXPLOSION:** Contact with oxidizable substances may cause extremely violent combustion. Drying of concentrated hydrogen peroxide on clothing or other combustible materials may cause fire or explosion. Sealed containers may rupture when heated.

**EXTINGUISHING MEDIA:** Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

**SPECIAL FIRE FIGHTING PROCEDURES:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** May intensify a fire; greater hazard at elevated temperature.

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## V HEALTH HAZARD DATA

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**PRIMARY ROUTES OF EXPOSURE:** Skin, eyes, inhalation, ingestion.

**CARCINOGEN INFORMATION:** Not listed (OSHA, IARC, NTP)

**MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

**EFFECTS OF OVEREXPOSURE:** No information found

**EYE CONTACT:** Vapors are very corrosive and irritating to the eyes. Symptoms include pain, redness, and blurred vision. Splashes can cause permanent tissue destruction.

**SKIN CONTACT:** Corrosive. Symptoms of redness, pain, and severe burn can occur. If left on skin for long period, blisters may form.

**INHALATION:** Vapors are corrosive and irritating to the respiratory tract. Inhalation of mist may burn the mucous membrane of the nose and throat. In severe cases, exposures may result in pulmonary edema and death.

**INGESTION:** Corrosive and irritating to the mouth, throat, and abdomen. Large doses may cause symptoms of abdominal pain, vomiting, and diarrhea as well as blistering or tissue destruction. Stomach distention (due to rapid liberation of oxygen), and risk of stomach perforation, convulsions, pulmonary edema, coma, possible cerebral edema (fluid on the brain), and death are possible.

### **EMERGENCY AND FIRST AID PROCEDURES:**

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**SKIN CONTACT:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse. If allowed to dry on clothing, evaporation leads to concentration and increased possibility of ignition.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**INGESTION:** If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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## VI REACTIVITY DATA

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**STABILITY:** Normally stable if uncontaminated, but slowly decomposes to release oxygen. Unstable with heat, may result in dangerous pressures. A strong oxidizer, reacts violently upon contact with many organic substances, particularly textile and paper. Avoid light and keep in a closed but vented container to prevent evaporation (concentration) and contamination.

**CONDITIONS TO AVOID:** Light and incompatibles. Avoid excess heat and contact with combustible or organic materials.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Heat, reducing agents, organic materials, dirt, alkalis, rust, and many metals. Spontaneous combustion may occur on standing in contact with readily flammable materials.

**HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:** Decomposes to water and oxygen with rapid heat release. Use vented containers. The solution can decompose violently upon heating.

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## VII SPILL OR LEAK PROCEDURES

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**SPILL, LEAK, WASTE DISPOSAL PROCEDURES:** CAUTION! Corrosive material. Causes fires with organic material. Do not use absorbants that can be oxidized. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not return spilled material to original container. **Larger Spills:** Dilute with a large amount of water and hold in a pond or diked area until the peroxide decomposes followed by discharge into a suitable treatment system. May be neutralized with sodium metabisulfite or sodium sulfite after diluting to 5-10% peroxide. Do not flush undiluted material to sewer. This oxidizing material can increase the flammability of adjacent combustible materials. Empty containers should be rinsed with water before discarding.

**WASTE DISPOSAL METHODS:** Product as supplied is classified as a hazardous waste. Once diluted and fully decomposed, hydrogen peroxide is not classified as a hazardous waste. Waste management options depend on the properties of the product and rinsewater generated during use. Empty container may be rinsed with water and disposed in a licensed sanitary landfill. Check local restrictions. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## VIII SPECIAL PROTECTION INFORMATION

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**RESPIRATORY PROTECTION:** If the exposure limit is exceeded, wear a supplied air, full-face piece respirator, airlined hood, or full-face piece self-contained breathing apparatus. This substance has unknown warning properties. When mixed with BioKlean™ Cleaner component the concentration of hydrogen peroxide and tendency to form vapors will be greatly decreased.

**VENTILATION:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

**PROTECTIVE CLOTHING:** Rubber, Neoprene or equivalent

**PROTECTIVE GLOVES:** Rubber, Neoprene or equivalent

**EYE PROTECTION:** Use chemical safety goggles and/or a full face shield when handling product.

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## IX SPECIAL PRECAUTIONS

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**WORK PRACTICES:** Proper work practices and planning should be utilized to avoid contact with workers, passersby, and non-masonry surfaces. Do not atomize during application. Beware of wind drift. Always follow published dilution instructions. See the Product Data sheet and label for specific precautions to be taken during use. Smoking, eating and drinking should be prohibited during the use of this product. Wash hands before breaks and at the end of a shift.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Vent all containers to prevent pressure buildup; keep upright. Store in a cool, ventilated, non-combustible area remote from combustible, organic, readily oxidizable materials and catalytic metals; protect from physical damage. Do not breathe vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution! Never return unused Hydrogen Peroxide to original container.

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**X REGULATORY INFORMATION**

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**SHIPPING:** This product carries the proper shipping description **UN2984, Hydrogen Peroxide, Aqueous Solution, 5.1, III** in domestic or international shipments. Container sizes 1-gallon and smaller are reclassified as Consumer Commodity ORM-D for domestic ground shipment. Some container sizes are restricted in air transport.

**NATIONAL MOTOR FREIGHT CLASSIFICATION:** NMFC #: 48580 Sub 3      Class: 55

**SARA 313 REPORTABLE:**

CHEMICAL NAME	CAS	UPPERBOUND CONCENTRATION % BY WEIGHT
N/A		

**CALIFORNIA PROPOSITION 65:**      Contains no chemicals listed under California's Proposition 65.

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**XI OTHER**

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**MSDS Status:**      **Date of Revision:** April 16, 2007  
**For Product Manufactured After:** N/A – no product reformulation  
**Changes:** Updated Shipping Description (Section X) for Compliance with DOT Regulations  
**Item #:** 41042  
**Approved By:** Regulatory Department

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**DISCLAIMER:**

The information contained on the Material Safety Data Sheet has been compiled from data considered accurate. This data is believed to be reliable, but it must be pointed out that values for certain properties are known to vary from source to source. **PROSOCO, Inc. expressly disclaims any warranty express or implied as well as any liability for any injury or loss arising from the use of this information or the materials described.** This data is not to be construed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. It is the responsibility of the user to determine the best precautions necessary for the safe handling and use of this product for his unique application. This data relates only to the specific material designated and is not to be used in combination with any other material. Many federal and state regulations pertain directly or indirectly to the product's end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize himself with all applicable regulations.

**DATE OF PREPARATION:** April 16, 2007