

MATERIAL SAFETY DATA SHEET  
HIBRETT PURATEX 7001 WESTFIELD AVENUE PENNSAUKEN, NJ 08110  
OFFICE PHONE: (609) 662-1717 FAX: (609) 662-0550  
EMERGENCY PHONE: (800) 424-9300

TRADE NAME OF PRODUCT: PRO-SAN SANITIZER/BLEACH JANUARY 1,2008

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**HAZARDOUS CHEMICALS**

Sodium Hypochlorite CAS 7681-52-9 12.5% LIMITS NOT ESTABLISHED

HMIS Health=3 Flammability=0 Reactivity= 3  
FIFRA: Reg No 21139-4

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**PHYSICAL DATA**

**BOILING PT. (DEG C):** 110 **SPECIFIC GRAVITY:** 1.1 - 1.2

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**SOLUBILITY IN WATER:** COMPLETE % **VOLATILE:** decomposes leaving salt solution.

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**VAPOR DENSITY (AIR=1):** na **EVAPORATION RATE:** similar to water

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**APPEARANCE AND ODOR:** light yellow to green clear liquid with characteristic chlorine odor

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**FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT (METHOD USED):** none

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**FLAMMABLE LIMITS:** na

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**EXTINGUISHING MEDIA:** suitable for surrounding fire

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**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self contained breathing apparatus and full protective clothing. Avoid inhalation of fumes and body contact.

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**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Many reactions can cause fire and explosion. This material will react with some metals which may cause liberation of oxygen. Toxic fumes can be liberated by contact with acid or heat. Vigorous reactions can occur with oxidizable materials and organics. Keep material cool using a water spray from a safe distance. Keep all unnecessary people away. Stay upwind and stay out of low lying areas.

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**HEALTH HAZARD DATA**

**THRESHOLD LIMIT VALUE:** No TLV established. ACGIH LIMIT VALUE= none  
**IARC CARCINOGEN:** Not listed. **MUTAGENIC:** Not listed

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**EFFECTS OF OVEREXPOSURE:**

**INHALATION:** Irritation to respiratory tract.

**SKIN:** Irritant, reddening of skin, **EYES:** Severe irritation.

**INGESTION:** Can cause corrosion of the mucous membranes, perforation of esophagus and stomach, and laryngeal edema. May lead to convulsion, coma, and death.

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**EMERGENCY AND FIRST AID PROCEDURE:** INHALATION: Remove to fresh air and obtain medical help. SKIN: Remove contaminated clothing. Wash with water. If skin is burned contact a physician. EYES: Flush with water for 15 minutes, including under the eyeball. Contact physician at once.

INGESTION: Rinse mouth with water. Drink large quantities of water or milk and induce vomiting. Do not use acidic antidotes or Sodium Bicarbonate. Milk of magnesia may be helpful. TARGET ORGANS: none.

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**REACTIVITY DATA**

**STABILITY:** Relatively stable- contingent on temperature, contamination (metals), and pH (alkalinity)

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**CONDITIONS TO AVOID:** Contact with acids will release chlorine gas.

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**INCOMPATIBILITY** (materials to avoid): Acids, ammonia, oxidizable material, metals (aluminum, tin, copper, nickel, manganese, iron, etc).Heat sources and light sources.

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**HAZARDOUS DECOMPOSITION PRODUCTS:** chlorine, hydrochloric acid, hypochlorous acid vapors,. Oxygen can be generated during decomposition.

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**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

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**CONDITIONS TO AVOID:** Due to the formation of chloramines - mixing ammonia and hypochlorite solutions should be avoided. At sub zero temperatures with high strength solutions, pentahydrate crystal formation may occur. These crystals may be difficult to dissolve without agitation. The crystals are unstable if they dry.

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**SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Concentrated solutions will seriously affect aquatic life. Do not allow material to enter sewers, streams, ponds, or storm conduits. Personnel involved in the clean up must be equipped with NIOSH approved respiratory protection, rubber boots/gloves and clothing to avoid body contact.

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**WASTE DISPOSAL METHOD:** Contain spills in plastic drums when available. Contain in as small an area as possible such as a holding area for dilution and neutralization. Dispose of in accordance with Federal, State and Local regulations. Do not absorb spills with flammable materials such as sawdust or combustible absorbents.

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**SPECIAL PROTECTION INFORMATION:**

**RESPIRATORY PROTECTION** (specify type): NIOSH approved acid gas chemical cartridge respirator or full face with canister. For unknown concentrations use approved self contained breathing apparatus.

**VENTILATION: LOCAL EXHAUST VENTILATION:** Personnel should not be exposed to irritating effects of the fumes

**PROTECTIVE GLOVES:** rubber

**EYE PROTECTION:** Splash goggles and face shield

**OTHER PROTECTIVE EQUIPMENT:** Hard hats, boots, and clothing to avoid body contact- such as a rubber apron or rain suit. Eye wash and safety showers should be available in handling areas.

**SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Hygienic practices in handling and storing: Use chemical splash goggles, rubber gloves, and other protective clothing to avoid body contact. Store in vented, closed containers that provide protection from direct sun light. Keep temperature below 85 deg F. Do not store near acids, heat, oxidizable materials or organics. If splashed with this material remove contaminated clothing and thoroughly wash off with water. drench contaminated clothing and/or combustible material with plenty of water. Do not mix with other cleaning agents that may liberate chlorine gas vapors, I.E. acidic agents.

**OTHER PRECAUTIONS:** The manufacturer makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein. The manufacturer shall not be liable to the vendee, the vendees employees or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, adequacy or furnishing of such information. It is for the purchaser to decide whether said information is suitable for the purchaser's purposes. No warranty of merchantability, fitness for any particular purpose is expressed or implied regarding the accuracy or completeness of this information., the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.