



Chlor-San

SODIUM HYPOCHLORITE SOLUTION

10.5% by weight

LAUNDRY PRODUCTS

DESCRIPTION: Brilliant's Chlor-San is a Sodium Hypochlorite (10.5% by weight) solution effective for use as a sanitizer. This product may be used in automated dispensing systems. This product also helps remove tough stains, control fungus and mildew on asphalt or wood roofs and sidings, and swimming pool water disinfection when used as directed. The active ingredient's effectiveness decreases with time in storage; therefore it is important to rotate stock on a first in/first out basis.

DIRECTIONS:

- Usage rate should be determined by the characteristics of the local water conditions and type of washing equipment, load size and degree of soiled material.
- For best results, please consult your local service representative technician for proper usage rate.

PACKAGING:

SIZE

5 gallon pail
15 gallon drum
55 gallon barrel

CATALOG #

64101505
64101515
64101555

E.P.A. Reg. No. 53257-6-81270
E.P.A. Est. No 53257-FL-001

PRODUCT SPECIFICATIONS

Appearance:	Clear Liquid
Color:	Yellow
Odor:	Strong Chlorine
pH:	>12
Specific Gravity:	1.080 - 1.270
Viscosity:	<10

BRILLIANT PRODUCTS
P. O. Box 1425 Avon Park, FL 33826
Phone: (813)- 890-6594 Fax: 813-890-2101

CONTROLLED

Issue Date: 05/17/07
Form PB641015B, Rev (B)

MATERIAL SAFETY DATA SHEET

Prepared By: Roberto Gomez

(Prepared According to 29 CFR 1910.1200)

Effective Date: 08/23/06

SECTION 1- PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Product Name: CHLOR-SAN
Generic Name: Bleach Solution, Hypochlorite Solution
Product Group: Laundry Products

Manufacturer's Name: BRILLIANT PRODUCTS
 P.O. BOX 1425
 AVON PARK, FL 33826
Phone #: (813)-890-6594

SECTION 2- INGREDIENT INFORMATION

CHEMICAL NAME	CAS #	WT %	PEL	TWA-TLV	STEL-TLV
Sodium Hypochlorite	7681-52-9	10 - 14.2		- NONE ESTABLISHED -	
Sodium Hydroxide	1310-73-2	0.3 - 1.0		2 mg/m ³ Ceiling	
Sodium Chloride	7647-14-5	9 - 12.5		- NONE ESTABLISHED -	
Sodium Carbonate	497-19-8	=0.5		- NONE ESTABLISHED -	
Water	7732-18-5	Balance		- NONE ESTABLISHED -	

SECTION 3- PHYSICAL DATA

Boiling Point °F (°C): 110°C for 15% NaOCl **Specific Gravity:** 1.080 – 1.270
Vapor Pressure (mmHg): Vapor pressure of water plus decomposition products.
Vapor Density (Air=1): n.a. **% Volatile:** Water vapor plus decomposition products. **pH:** >12 **Solubility in Water:** complete.
Evaporation Rate (Water=1): n.a.
Physical Description: Light, yellow-green liquid with pungent-like chlorine odor.

SECTION 4- FIRE AND EXPLOSION HAZARD DATA

Flash Point: Non-flammable. **Flammable Limits:** n.a. **Extinguishing Media:** Use water spray, fog, foam, dry chemicals, or carbon dioxide. **Special Firefighting Procedures:** Firefighters should wear protective gear including self-contained breathing apparatus. Avoid fumes. Dilute spill with copious amounts of water, ventilate. **Unusual Fire and Explosion Hazards:** Possible vigorous reaction upon contamination with organics or oxidizing agents. Bleach decomposes when heated, decomposition products may cause containers to rupture or explode. 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 all unnecessary people away. Stay up wind and stay out of low-lying areas.

SECTION 5- REACTIVITY DATA

Stability: Unstable (Contingent upon temperature, contamination (metals), and pH.)
Hazardous Polymerization: Will not occur. **Conditions to avoid:** Heat, light exposure, decrease in pH, and contamination with heavy metals, such as nickel, cobalt, copper and iron.
Incompatibility (Materials to Avoid): Heavy metals, reducing agents, organics, ether, ammonia, acids.
Hazardous Decomposition Products: Hypochlorous acid, chlorine, hydrochloric acid, sodium chloride, sodium chlorate, and oxygen.

SECTION 6- STORAGE AND HANDLING INFORMATION

Precautions to be taken in handling and storage: Store this product in a cool dry area; away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not reuse container. Do not contaminate food or feed by storage, disposal or cleaning of equipment.
Other Precautions: Use with adequate ventilation. Wash thoroughly after handling. Do not get in eyes, on skin or clothing. Do NOT breathe fumes or mist. Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas which is irritating to eyes, lungs and mucous membranes.

SECTION 7- HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
PRECAUTIONARY STATEMENTS Hazards to Humans and domestic animals): Danger! Corrosive may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses or goggles and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.
Inhalation: Irritating to respiratory tract. Mist or fumes may cause bronchial irritation, coughing, difficult breathing, nausea and pulmonary edema.
Eyes contact: Severe eye irritation.
Skin contact: Skin irritant, reddening and possible skin damage.
Ingestion: Causes irritation of membranes of mouth, throat, and stomach pain with possible ulceration. May lead to convulsion, coma, and death.
Primary Routes of Entry: Inhalation and contact.
Emergency and First Aid Procedures
Inhalation: Remove victim to fresh air. Give artificial respiration if not breathing. Get medical attention.
Eye contact: Wash eyes with plenty of water for at least 15 minutes while holding eyelids open. Consult an eye specialist immediately.
Skin contact: Flush skin with plenty of water while removing contaminated clothing. Get medical attention for persistent irritation. Clean clothing before reuse.
Ingestion: If swallowed drink large quantities of water. **Do NOT Induce Vomiting.** Call a poison control center or doctor immediately for treatment advice.

SECTION 8- SPECIAL PROTECTION INFORMATION

Respiratory Protection: When fumes present, use NIOSH approved respirator with acid type canister.
Ventilation: Local exhaust preferable as required to control fumes.
Protective Gloves: Wear rubber or plastic.
Eye Protection: Chemical goggles.
Other Protective Equipment: Clothing to protect skin. Safety shower and eye wash fountain.

SECTION 9- SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: CORROSIVE. Personnel with proper protective equipment should contain spill. Flush area with large amounts of water. Use reducing agents as bisulfites or ferrous salt solutions to neutralize.
Waste Disposal: Disposal is to be in accordance with all Federal, State, and Local regulations.

SECTION 10- REGULATORY INFORMATION

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluents containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of EPA.
TSCA (Toxic Substance Control Act): All components of this product are listed on the TSCA inventory.
SARA TITLE III: SARA (311, 312) HAZARD CLASS: Not listed.
Chemical Listed as Carcinogen or Potential Carcinogen: NTP/No IARC/No OSHA/No

Shipping Information
Shipping Name: Hypochlorite Solutions
Hazard Class: 8 (Corrosive)
Reference: 49 CFR 172.101
Identification: UN 1791, III
Label: Corrosive

HMIS Hazardous Material Identification System

Health	3
Flammability	0
Reactivity	2
Personal Protection	B

For **emergency** and **medical** help line, call **INFOTRAC** at **1-800-535-5053**, 24 hours a day, 7 days a week for information on all our products and/or MSDS. Obtain an MSDS at our customer service number: **(813)- 890-6594**.

SECTION 11- OTHER INFORMATION

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts No responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept NO liability for damages or loss incurred from the improper handling and use of this product.