

COMPLIES WITH OSHA HCS 29 CFR 1910.1200 AND OSHA 174

PRODUCT NAME (AS USED ON LABEL) BLUE RIBBON LIQUID BLEACH  
HOUSEHOLD 5.25% AS LABELED

ALTERNATE PRODUCT NAME: SODIUM HYPOCHLORITE

EMERGENCY TELEPHONE NUMBER: 1-313-782-2234

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SECTION 1.

MANUFACTURER

PATTERSON LABORATORIES, INC.  
11930 PLEASANT AVENUE  
DETROIT, MICHIGAN 48217

TELEPHONE NUMBER FOR GENERAL INFORMATION: 1-313-843-4500

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SECTION 2.

HAZARDOUS INGREDIENTS

SODIUM HYPOCHLORITE.....5.25%  
FINISHED PRODUCT: OSHA (PEL)-N/A ACGIH (TLV)-N/A  
HAZARDOUS COMPONENTS:

<u>CHEMICAL COMMON NAME:</u>	<u>CAS NUMBER</u>	<u>PEL/TLV-SOURCE</u>
SODIUM HYPOCHLORITE	7681-52-9	1PPM (CHLORINE GAS)
		1PPM (CHLORINE GAS)

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SECTION 3.-PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 217F DEGREES  
VAPOR DENSITY (AIR=1): 19.2  
SPECIFIC GRAVITY (WATER=1): 1.082  
VAPOR PRESSURE (mm Hg.): 16  
VOLATILES by Weight (%): 90  
SOLUBILITY IN WATER: COMPLETE  
APPEARANCE/ODOR: PALE YELLOW LIQUID WITH A TYPICAL BLEACH (CHLORINE) ODOR.

MELTING POINT: N/A  
FREEZING POINT: 12F DEGREES  
PH: 12.4  
Evaporation Rate (\*=1): N/A  
\*Butyl Acetate

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SECTION 4.-FIRE AND EXPLOSIVE HAZARD DATA:

FLASH POINT (O-F)/Method Used: N/A  
FLAMMABLE LIMITS (LEL/UEL): NONFLAMMABLE SOLUTION  
EXTINGUISHING MEDIA: USE WATER IN FLOODING QUANTITIES AS FOG  
SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH-approved self-contained breathing apparatus for chlorine gas vapors. Cool fire-exposed containers with water spray.  
Unusual Fire and Explosive Hazards: Bleach decomposes when heated to high temperatures and containers may rupture.

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SECTION 5-REACTIVITY DATA:

STABILITY: Unstable in light, temperatures above 90F degrees  
(see Sec.7)

CONDITIONS TO AVOID: heat, light.

CHEMICAL INCOMPATIBILITY: Acids, ammonia, organic compounds,  
heavy metals & salts thereof, and  
oxidizing or reducing compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine, chlorine  
dioxide, chloramines. Decomposition products may cause  
containers to rupture.

HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION 6> HEALTH HAZARD DATA:

ROUTE OF ENTRY: Inhalation-likely Skin-likely Ingestion-  
unlikely.

HEALTH HAZARDS: (Acute & Chronic) for product.

ACUTE - Depending on solution concentration, material may  
be corrosive to skin, mucous membranes & eyes & vapors may  
cause respiratory irritation.

CHRONIC -May cause damage or injury to eyes, skin and  
respiratory organs.

<u>CARCINOGENICITY*:</u>	<u>NTP</u>	<u>IARC MONOGRAPHS</u>	<u>OSHA REGULATED</u>
	ND	ND	ND

\*NOT DETERMINED FOR PRODUCT OR HAZARDOUS INGREDIENTS  
CONTAINED THEREIN.

EFFECTS OF OVER-EXPOSURE TO PRODUCT:

INHALATION - Inhalation of vapors may cause bronchial  
irritation, coughing, difficult breathing, pulmonary  
edema.

INGESTION - If swallowed, may cause burning sensation &  
corrosion of mucous membranes, esophageal or gastric  
perforation, laryngeal edema, vomiting, nausea.

SKIN - Skin contact may result in blistering and eczema.

EYES - Accidental eye contact with liquid or vapors may  
produce moderate to severe irritation.

Medical Conditions Generally Aggravated by Exposure; None

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SECTION 7> PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be taken in case material is released or spilled.

Eye protection - Avoid splashing into eyes. Wear goggles.

Skin protection - Avoid prolonged skin contact. Wear  
protective clothing-rubber gloves-rubber  
boots and face shield.

Respiratory Protection - Avoid inhalation of fumes. Wear  
NIOSH-approved respiratory protection.

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SECTION #7-PRECAUTIONS FOR SAFE HANDLING AND USE CONTINUED..

Handling: Use normal procedures for handling caustic substances. Store in a cold dark place away from heat and light and combustible materials. Store below 90°F. KEEP CONTAINERS WELL CLOSED BY CHECKING CAP FOR TIGHTNESS. Provide adequate ventilation.

Normal Clean-Up: Dilute with copious amounts of water and then mop up.

Waste Disposal: Flush with water to sewer in accordance with federal, state and local environmental regulations.

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SECTION #8-FIRST AID & MEDICAL EMERGENCY PROCEDURES:

EYES: Flush eyes thoroughly with running water for at least 15 minutes. Get prompt medical attention.

SKIN: Rinse thoroughly with running water. If irritation persists, contact physician or local poison control center.

INHALATION: If effects occur, remove victim to fresh air. Provide symptomatic care and support respiration. Get prompt medical attention.

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SECTION #9-CONTROL MEASURES-OCCUPATIONAL

Respiratory Protection (Specify Type): None required.

Ventilation: Maintain adequate ventilation.

Local exhaust-Maintain adequate ventilation.

Mechanical (General)-N/A Special-N/A

Protective Gloves: Rubber

Eye Protection: Splash proof, chemical resistant safety goggles.

Other Protective Clothing or Equipment: Uniform, coveralls, or lab coat, chemical resistant footwear. Work/Hygienic

Practices: Provide eye bath and emergency shower. Launder soiled work clothing before re-use.

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DATE PREPARED: 3-10-92

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