

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

SECTION 1.

MANUFACTURER

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

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

SECTION 2.

HAZARDOUS INGREDIENTS

SODIUM HYPOCHLORITE.....5.25%

FINISHED PRODUCT: OSHA (PEL)-N/A ACGIH (TLV)-N/A

HAZARDOUS COMPONENTS:

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

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

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.

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.

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

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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