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SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

(N/A)

Product Name: Blue Ribbon Liquid Bleach Household 5.25%**Manufacturer Name:** Patterson Laboratories, Inc.**Address:** 11930 Pleasant Ave
Detroit, MI 48217

Emergency Telephone Number: 1-800-424-9300

Business Phone: General Information: 1-313-843-4500**Revision Date:** April 18, 1996HMIS Rating:
2 = HAZARDOUS
0 = WILL NOT BURN
1 = UNSTABLE IF HEATED ALK/CORMaterial Safety Data Sheet
Complies with OSHA HCS 29, CFR 1910.1200-ND OSHA 174**HMIS**

HEALTH	2
FIRE	0
REACTIVITY	1
PPE	

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

: (N/A)

Ingredient Name	CAS#	Ingredient Percent
Inert Ingredients		94.75%
EC Index Number:	1	
Sodium Hypochlorite	7681-52-9	5.25%
OSHA PEL TWA:	1 PPM (Chlorine Gas)	
ACGIH TLV TWA:	1 PPM (Chlorine Gas)	
Hazardous:	Yes	
EC Index Number:	1	

Finished Product:
OSHA (PEL): Not Applicable
ACGIH (TLV): Not Applicable[To Top of page](#)

SECTION 3 : HAZARDS IDENTIFICATION

: (N/A)


Applies to All Ingredients :

Route of Exposure:	Inhalation: Likely Skin: Likely Ingestion: Unlikely
Potential Health Effects:	(Acute): Depending on solution concentration, material may be corrosives to skin, mucous membranes and eyes. Vapors may cause respiratory irritation.
Eye Contact:	Accidental eye contact with liquid or vapors may produce moderate to severe irritation.
Skin Contact:	Skin Contact may cause in blistering and eczema.
Inhalation:	Inhalation of vapors may cause bronchial irritation, coughing, difficult breathing or pulmonary edema.
Ingestion:	If swallowed, may cause burning sensation and corrosion of mucous membranes, esophageal or gastric perforation, laryngeal edema, nausea and vomiting.
Chronic Health Effects:	Mau cause damage or injury to eyes, skin and respiratory organs.
OSHA Designation:	Regulated: Not Determined
NTP Designation:	Not Determined
IARC Designation:	Monographs: Not Determined
Aggravation of Pre-Existing Conditions:	None
	Not Determined for product or hazardous ingredients contained therein.

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: (N/A)

Eye Contact:	Flush eyes thoroughly with running water for at least 15 minutes. Get prompt medical attention.
Skin Contact:	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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: (N/A)

Flash Point:	0 deg F
Flash Point Method:	Not Applicable
Upper Flammable or Explosive Limit:	Nonflammable Solution
Lower Flammable or Explosive Limit:	Nonflammable Solution
Extinguishing Media:	Use water in flooding quantities as fog.
Fire Fighting Instructions:	Wear NIOSH approved selfcontained breathing apparatus for chlorine gas vapors. Cool fire-exposed containers with water spray.
Unusual Fire Hazards:	Bleach decomposes when heated to high temperatures and containers may rupture.

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: (N/A)

Spill Cleanup Measures:	Dilute with copious amounts of water and mop.
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SECTION 7 : HANDLING and STORAGE

: (N/A)

Handling:	Use normal procedures for handling caustic substances.
Storage:	Store in a cool dark place away from heat, light and combustible materials. Store below 90 deg F. Keep containers well closed by checking cap for tightness. Provide adequate ventilation.
Hygiene Practices:	Provide eye bath and emergency shower. Launder soiled work clothing before re-use.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

: (N/A)


Ventilation System:	Maintain adequate ventilation.
Local Exhaust:	Maintain adequate ventilation.
Personal Protective Equipment Routine Handling:	PRECAUTIONS FOR SAFE HANDLING AND USE: Eye Protection: Avoid eye contact. Wear protective safety goggles. Skin Protection: Avoid prolonged skin contact. Wear protective clothing rubber gloves, boots and face shield. Respiratory Protection: Avoid inhalation of fumes. Wear NIOSH approved respiratory protection.
Hand Protection Description:	Protective Gloves: Rubber
Eye/Face Protection:	Splash proof, chemical resistant safety goggles.
Respiratory Protection:	(Specify Type): None required
Other Protective:	Clothing or equipment: Uniform, coveralls or lab coat. Chemical resistance footwear. Work/Hygiene Practices: Provide eye bath and emergency shower. Launder soiled work clothing before re-use.

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

: (N/A)

Physical State/Appearance:	Liquid
Color:	Pale yellow
Odor:	A typical bleach (chlorine) odor, free from haze or sediment.
pH:	12.4
Vapor Pressure:	16 mmHg
Vapor Density:	(AIR = 1): 19.2
Boiling Point:	217 deg F
Freezing Point:	12 deg F
Melting Point:	Not Applicable
Solubility:	In Water: Complete
Specific Gravity:	(WATER=1): 1.082
Evaporation Point:	(* = 1): Not Applicable *Butyl Acetate
Percent Volatile:	By Weight (%): 90

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SECTION 10 : STABILITY and REACTIVITY

: (N/A)

Chemical Stability:	Unstable in light, temperatures above 90 deg F
Conditions to Avoid:	Heat & light
Incompatibilities with Other Materials:	Acids, ammonia, organic compounds, heavy metals and salts thereof, and oxidizing or reducing compounds.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Chlorine, chlorine dioxide, chloramines. Decomposition of products may cause containers to rupture.

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SECTION 11 : TOXICOLOGICAL INFORMATION

: (N/A)

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SECTION 12 : ECOLOGICAL INFORMATION

: (N/A)

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SECTION 13 : DISPOSAL CONSIDERATIONS

: (N/A)

Waste Disposal:

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

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SECTION 14 : TRANSPORT INFORMATION

: (N/A)


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SECTION 15 : REGULATORY INFORMATION

: (N/A)

Applies to all ingredients:**OSHA 29 CFR 1200:**

Complies with OSHA HCS 29, CFR 1910.1200-ND OSHA 174

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SECTION 16 : ADDITIONAL INFORMATION

: (N/A)

HMIS:**Health Hazard:**

2 = HAZARDOUS

Fire Hazard:

0 = WILL NOT BURN

Reactivity:

1 = UNSTABLE IF HEATED ALK/COR

MSDS Revision Date:

April 18, 1996

Disclaimer:

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Patterson Laboratories, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, we will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

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