



MATERIAL SAFETY DATA SHEET

CT #: FH/H/2003/BMRA-5JHPJT
FH/H/2003/LHLA-5T3LQD

Issue Date: 11/20/03
Revised Date:

SECTION I - CHEMICAL PRODUCT

Identity: **Liquid Laundry Detergent**

Brands: **IVORY SNOW**

(All variations)

Hazard Rating: 1

Health: 1

4=EXTREME

Flammability: 1

3=HIGH

Reactivity: 0

2= MODERATE

1=SLIGHT

Emergency Telephone Number: 24hr P&G Operator - 1-800-846-7669 or call Local Poison Control Center

SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Biodegradable surfactants (anionic and nonionic) and enzymes.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Recommended Limits</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Ethyl alcohol	Ethanol	64-17-5	ACGIH TWA: 1880 mg/m ³ OSHA PEL & TWA: 1900 mg/m ³	1 – 5%	NA
Sodium borate	Borax	1330-43-4	ACGIH TWA: 5 mg/m ³	1 – 5%	NA
2-Aminoethanol	Ethanolamine	141-43-5	ACGIH TWA: 7.5mg/m ³ ACGIH STEL: 15mg/m ³ OSHA PEL: 6mg/m ³ OSHA TWA: 8mg/m ³ OSHA STEL: 15mg/m ³	0.5 – 1.5%	NA

SECTION III - HAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

Ingestion: May cause transient gastrointestinal irritation.

Eye Contact: May cause mild, transient irritation.

Inhalation: Transient irritation with prolonged exposure to concentrated material.

Signs and Symptoms of Exposure:

Ingestion: May result in nausea, vomiting, and/or diarrhea.

Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness.

Skin: Prolonged contact with concentrated material may be drying or transiently irritating to skin.

SECTION IV - FIRST AID INFORMATION	
Emergency and First Aid Procedures:	
Ingestion:	Drink a glassful of water.
Eye Contact:	Flush with water for 10 to 15 minutes.
Skin:	If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes.
If symptoms persist or reoccur, seek medical attention.	
Other: Consumer product package has a caution statement: "CAUTION: Eye irritant. Harmful if swallowed. KEEP OUT OF REACH OF CHILDREN. If swallowed, give a glassful of water. Call a physician. In case of eye contact, flush with water."	

SECTION V - FIRE FIGHTING INFORMATION		
Flash Point (Method Used): >200°F (PM CC)	Explosive Limits: LEL: N/A	UEL: N/A
Extinguishing Media: CO ₂ , water		
Special Fire Fighting Procedures: None.		
Unusual Fire Hazards: None. It is an aqueous solution containing ethyl alcohol and it does not sustain combustion.		
Stability	<i>Unstable:</i>	<i>Conditions to Avoid:</i> None
	<i>Stable:</i> X	
Incompatibility (Materials to Avoid): None known		
Hazardous Decomposition/By Products: None known		
Hazardous Polymerization:	<i>May Occur:</i>	<i>Conditions to Avoid:</i> None
	<i>Will Not Occur:</i> X	

SECTION VI - ACCIDENTAL RELEASE MEASURES	
Personal Precautions: None	
Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL REGULATIONS. Small or household quantities may be disposed of in refuse or in sewer. First check with your local water treatment plant. For larger quantities, incineration is preferred. Do not landfill.	
Steps To Be Taken in Case Material is Released or Spilled: Flush small or household quantities down acceptable sewer (contains biodegradable surfactants). Prevent spills from reaching a waterway. Sorbents may be used.	

SECTION VII - HANDLING AND STORAGE	
Precautions To Be Taken in Handling and Storing: No unusual precautions necessary.	
Other Precautions: None	

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION		
Respiratory Protection (Specify Type): None required with normal use.		
Ventilation	<i>Local Exhaust:</i> None required with normal consumer use.	<i>Special:</i> None
	<i>Mechanical (General):</i> Normal/general dilution ventilation is acceptable.	<i>Other:</i> None
Eye Protection: None required with normal consumer use.		
<i>Industrial Setting:</i> If a splash is likely, chemical goggles may be needed.		
Protective Gloves: None required with normal use.		
<i>Industrial Setting:</i> Protective gloves (rubber, neoprene) should be used for prolonged direct contact.		
Other Protective Equipment: None required with normal use.		

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES	
Boiling Point ° F: 205°F	Specific Gravity (H₂O=1): 1.054 g/cc
Vapor Pressure (mm Hg): <29.4	Percent Volatile by Volume (%): ~70%
Vapor Density (Air=1): Unknown	Evaporation Rate (nBuOAc=1): Unknown
Odor Threshold: N/A	Freezing Point: N/A
Coefficient of Water/Oil Distribution: N/A	pH (10% solution): 8.1 – 8.5
Scooped Density: N/A	Solubility in Water: Completely soluble.
Appearance and Odor: Product is straw yellow color and contains perfume.	Reserve Alkalinity: N/A

SECTION X - STABILITY AND REACTIVITY
Possible Hazardous Reactions/Conditions: None known
Conditions to Avoid: None
Materials to Avoid: None
Hazardous Decomposition Products: None known
Other Recommendations: None

SECTION XI - TOXICOLOGICAL INFORMATION

SECTION XII - ECOLOGICAL INFORMATION
Based on ecotoxicity and fate data for the individual ingredients in this specific formulation and for related consumer household cleaning product formulations, it is expected that this product would exhibit a non-hazardous order of toxicity at relevant environmental concentrations.

SECTION XIII - DISPOSAL CONSIDERATIONS
Waste Disposal Method: Disposal is to be performed in compliance with all Federal, state and local regulations. Small or household quantities may be disposed of in refuse or in sewer. First check with your local water treatment plant. For larger quantities, incineration is preferred. Do not landfill.

SECTION XIV - TRANSPORT INFORMATION
The finished product is non-hazardous under DOT.

SECTION XV - ADDITIONAL REGULATORY INFORMATION

All components are listed on the US TSCA Inventory. No components are affected by Significant New Use Rules (SNURs) under TSCA §5.

No components of Ivory Snow are subject to California Proposition 65.

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified with Hazard Criteria of the Canadian Control Products Regulation (CPR) and this MSDS contains all information required by the Canadian Products Regulation.

SECTION XVI - OTHER INFORMATION

*N/A. - Not Applicable

*N/K. - Not Known

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.