



MATERIAL SAFETY DATA SHEET

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

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SECTION I - CHEMICAL PRODUCT		
Identity: Liquid Laundry Detergent		
Brands: DREFT	(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 - 1-800-436-2229 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 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.

