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Procter & Gamble
Fabric and Home Care Division
Ivorydale Technical Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS: CT#FH/H/2006/LHLA-6LFQ49
CT#FH/H/2005/LHLA-68JMY3
CT#FH/H/2004/SDSM-65HMNU
CT#FH/H/2004/SDSM-63LP6X
CT#FH/H/2004/LHLA-5WNSXU

Issue Date: 03/24/06

SECTION I - CHEMICAL PRODUCT

Identity: **Liquid Laundry Detergent**

Brands: **TIDE**

(All variations)

Hazard Rating: 1

Health: 1

4=EXTREME

Flammability: 1

3=HIGH

Reactivity: 0

2= MODERATE

1=SLIGHT

0= NOT SIGNIFICANT

Emergency Telephone Number: 24hr P&G Operator - 1-800-879-8433 or call Local Poison Control Center

SECTION II - COMPOSITION AND INGREDIENTS

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

Biodegradable surfactants (anionic, nonionic, and cationic) 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: 5mg/m ³	1 – 5%	NA
2-Aminoethanol	Ethanolamine	141-43-5	ACGIH TWA: 7.5 mg/m ³ ACGIH STEL: 15 mg/m ³ OSHA PEL: 6 mg/m ³ OSHA TWA: 8 mg/m ³ OSHA STEL: 15 mg/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): —150°F PM CC **Explosive Limits:** *LEL:* N/A *UEL:* N/A

Extinguishing Media: CO₂, water

Special Fire Fighting Procedures: None.

Unusual Fire Hazards: None. This product has a flash point above 150°F. It is an aqueous solution containing ethyl alcohol and it does not sustain combustion.

Stability *Unstable:* *Conditions to Avoid:* None
 Stable: X

Incompatibility (Materials to Avoid): None known

Hazardous Decomposition/By Products: None known

Hazardous Polymerization: *May Occur:* *Conditions to Avoid:* None
 Will Not Occur: 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 *Local Exhaust:* None required with normal consumer use.

Special: None

Mechanical (General): Normal/general dilution ventilation is acceptable. *Other:* None

Eye Protection: None required with normal consumer use.

Industrial Setting: If a splash is likely, chemical goggles may be needed.

Protective Gloves: None required with normal use.

Industrial Setting: 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: 205-207°F

Specific Gravity (H₂O=1): 1.045 to 1.080

Vapor Pressure (mm Hg): <29.4

Percent Volatile by Volume (%): 60.99%-61.66%

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 to 8.6

Scooped Density: N/A

Solubility in Water: Completely soluble.

Appearance and Odor: Tide Free, Tide High Efficiency Free, and Tide Simple Pleasures are straw/yellow color. Tide High Efficiency, Reg./Orig. Scent Tide, Tide Mtn Spring, Tide Clean Breeze, Tide High Efficiency Clean Breeze, Tide 'Deep Clean', Tide Fresh Scent, Tide Tropical Clean, and All Tide w/Bleach Alternative ColorSafe Bleaching Action, Tide ColdWater Fresh Scent, Tide ColdWater Glacier, Tide with a Touch of Downy, and Tide with Febreze products are blue in color. All Liquid Tide products contain fragrance, except Tide Free and Tide High Efficiency Free.

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

Liquid Tide formulas have a low order of toxicity. If ingested, it may be mildly irritating. It is expected to be moderately emetic.

LD50 (oral, estimated): > 2g/kg

ED50 (emesis, estimated): ~ 0.5 g/kg

This mixture is considered to be a moderate irritant to eyes and a slight irritant to skin. Repeated inhalation of aerosols may result in sensitization (skin prick test positive) to one or more enzyme proteins. For sensitized persons, subsequent inhalation of aerosols may result in transient "hay-fever-like" symptoms (watery eyes and/or nose, scratchy throat) and/or transient "asthma-like symptoms" [chest tightness and difficulty in breathing caused by bronchoconstriction (narrowing of the airways)].

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/provincial 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.

Liquid Tide products do not require labeling under California Proposition 65.

Liquid Tide product/s contain the following CERCLA reportable ingredients:

Ethanol (CAS#64-17-5) RQ=100lbs,

Sodium Hydroxide (CAS#1310-73-2) RQ=1000lbs,

Diethyl Phthalate (CAS#84-66-2) RQ=1000lbs.

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.