



MATERIAL SAFETY DATA SHEET

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SECTION I - CHEMICAL PRODUCT

Identity: **Liquid Laundry Detergent**

Brands: **TIDE**

(All non 2X Variations for Retail*)

Tide Regular/Orig Scent, Tide Mountain Spring, Tide Free, Tide High Efficiency, Tide High Efficiency Free, Tide Simple Pleasures Vanilla & Lavender, Tide Simple Pleasures Water Lily & Jasmine, Tide Simple Pleasures Rose & Violet, Tide Simple Pleasures Magnolia & Orange Blossom, Tide Clean Breeze, Tide High Efficiency Clean Breeze, Tide 'Deep Clean', Tide Fresh Scent, Tide Tropical Clean, Tide w/Bleach Alternative Reg, Tide w/Bleach Alternative Mountain Spring, Tide w/Bleach Alternative Clean Breeze, Tide w/Bleach Alternative High Efficiency, Tide ColdWater Fresh Scent, Tide ColdWater Glacier, Tide ColdWater Mountain Spring, Tide with a Touch of Downy April Fresh, Tide with a Touch of Downy Clean Breeze, Tide with a Touch of Downy Soft Ocean Mist, Tide with Febreze Freshness Spring & Renewal, Tide with Febreze Freshness Meadows & Rain, Tide with Febreze Freshness Citrus & Light, Tide Pure Essentials with Citrus Extracts Lemon Verbena Scent, and Tide Pure Essentials with Baking Soda White Lilac Scent.

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

* **This MSDS applies to all** uses/handling of these products in a retail package for consumer home use.

SECTION II - 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 III - 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	0.5 - 5%	7.06 g/kg (oral, rat)
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	1 – 5%	1.7g/kg (oral, rat)

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): $\geq$ 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, Tide Simple Pleasures, and Tide Pure Essentials 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 ColdWater Mountain Spring, 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 Free High Efficiency.

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

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: NTP: No

IARC: No

OSHA: No

SECTION XII - ECOLOGICAL INFORMATION

Based on ecotoxicity and fate data for the individual ingredients in these products and for related consumer household cleaning product formulations, it is expected that these products 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.

Non Household Setting: For non household use/larger quantities, incineration is preferred. Do not landfill.

Household Use: Consumer produced household solutions may be disposed of down the drain with running water. may be disposed of in refuse or in sewer. Consumer may discard empty container in trash, or recycle where facilities exist.

SECTION XIV - TRANSPORT INFORMATION

U.S. D.O.T.

Ground Transport: These products are not regulated when transported by ground.

IATA: These products are not regulated when transported by air.

IMDG: These products are not regulated when transported by vessel.

SECTION XV - ADDITIONAL REGULATORY INFORMATION**United States**

All intentionally-added components of these products are listed on the US TSCA Inventory. These products are not subject to warning labeling under California Proposition 65.

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. Teses products have been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

SECTION XVI - OTHER INFORMATION

*N/A. - Not Applicable

*N/K. - Not Known

P&G Hazard Rating: 1

Health: 1

4=EXTREME

Flammability: 1

3=HIGH

Reactivity: 0

2= MODERATE

1=SLIGHT

0= NOT SIGNIFICANT

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

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