



MATERIAL SAFETY DATA SHEET

MSDS: RQ0907673

Issue Date: 2/17/2010

SECTION I - PRODUCT IDENTIFICATION

Identity: **Liquid Laundry Detergent** (All 2X Concentrated Variations for Retail*)

This MSDS applies to the following Liquid 2X Tide Ultra Detergent Brands:

Tide Original, Tide Free, Tide Mountain Spring, Tide Clean Breeze, Tide w/Bleach Alt. Original Scent, Tide w/Bleach Alt. Mountain Spring, Tide Coldwater Fresh Scent, Tide Coldwater Mountain Spring, Tide Coldwater Free, **Tide w/Febreze Freshness Sport Active Fresh**, Tide w/Febreze Freshness Seaside Fresh, Tide w/Febreze Freshness Meadows & Rain, Tide w/Febreze Freshness Spring & Renewal, Tide with the Action of Dawn Original Scent, Tide with the Action of Dawn Whitewater Clean, Tide with Bleach Alternative Advanced Power Original Scent.

Tide Reg. HE, Tide Free HE, Tide Clean Breeze HE, Tide w/Bleach Alt. HE, Tide w/Bleach Alt. Advanced Power HE, Tide Coldwater Fresh Scent HE, Tide Coldwater Free HE, Tide with A Touch of Downy April Fresh HE, Tide w/Febreze Freshness Spring & Renewal HE, Tide Total Care 7 Signs Renewing Rain HE, Tide Pure Essentials with Baking Soda White Lilac, Tide Pure Essentials with Citrus Extracts Lemon Verbena,

Emergency Telephone Number: 24hr P&G Operator – 1-800-879-8433

* **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. Tide w/Downy: Biodegradable surfactants (anionic, nonionic, and cationic) and enzymes.				
Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.				
Chemical Name	Common Name	CAS No.	Composition Range	LD50
Ethyl alcohol	Ethanol	64-17-5	1 - 5%	7.06 g/kg (oral, rat)
2-Aminoethanol	Ethanolamine	141-43-5	0.5 – 5%	1.7g/kg (oral, rat)
Alcohol Ethoxysulfate, sodium salt	Anionic surfactant	68585-34-2	7 – 13%	>2g/kg (oral, rat)
Alcohol Sulfates, sodium salts	Anionic surfactants	68585-47-7	5-10%	>2000 mg/kg (oral, rat)
Benzene sulfonic acid, sodium salt	Anionic surfactant	68081-81-2	3-7%	438 mg/kg (oral, rat) 1330 mg/kg (oral, mouse)
Alcohol ethoxylate	Nonionic surfactant	68551-12-2	1-5%	>200-2000 mg/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	
Flammable Properties: These products have a Flash Point of $\geq 150^{\circ}$ F - $>200^{\circ}$ F., and they do not sustain combustion per D.O.T. 49 CFR 173 Appendix H method.	Explosive Limits: LEL: N/A UEL: N/A
	Autoignition Temperature: N/A
Suitable Extinguishing Media: CO ₂ , water, foam, dry chemical.	
Unsuitable Extinguishing Media: Not known.	
Protection of Fire Fighters:	
- Specific Hazards arising from the chemical mixture: Not known.	
- Protective Equipment and Precautions for Firefighters: Standard self-contained breathing apparatus (SCBA) and full fire fighting turn-out gear (Bunker gear).	

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

<p>Appearance: All Liquid 2X Tide Detergents are opaque and blue in color except for the following products: Tide Simple Pleasures products are straw/colorless. Both Tide Pure Essentials products are amber. Tide Total Care 7 Signs HE products are opaque and orange in color.</p> <p>Odor: All products contain perfume/fragrance except Free versions which do not contain any perfume.</p> <p>Odor Threshold: Not known.</p> <p>Physical State: Liquid.</p> <p>Vapor Pressure Range (mm Hg): 18 - 21 @ 68°F. (20⁰ C) (mostly water)</p> <p>Vapor Density (Air=1): Not known</p> <p>Boiling Point Range °F: 210 - 216° F (98.9⁰ – 102.2⁰ C)</p> <p>Coefficient of Water/Oil Distribution: N/A</p> <p>Solubility in Water: Completely soluble.</p>	<p>Flash Point: Range: ≥150⁰ F - >200⁰ F. (CC), and these products do not sustain combustion per DOT 49 CFR 173 Appendix H method)</p> <p>Evaporation Rate (nBuOAc=1): Not known</p> <p>Explosive Limits: <i>LEL:</i> N/A <i>UEL:</i> N/A</p> <p>Percent Volatile by Volume (%): 30 – 40</p> <p>Specific Gravity (H₂O=1): 1.04 to 1.09</p> <p>Melting/Freezing Point: N/A</p> <p>pH (10% solution): 8.1 to 8.6</p> <p>Reserve Alkalinity: N/A</p>
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SECTION X - STABILITY AND REACTIVITY
<p>Chemical Stability: Stable.</p> <p>Conditions to Avoid: None known.</p> <p>Materials to Avoid: None known.</p> <p>Hazardous Decomposition Products: None known.</p> <p>Possibility of Hazardous Reactions: None known.</p>

SECTION XI - TOXICOLOGICAL INFORMATION
<p>Liquid Tide formulas have a low order of toxicity. If ingested, it may be mildly irritating. It is expected to be moderately emetic.</p> <p>LD50 (oral, estimated): > 2g/kg ED50 (emesis, estimated): ~ 0.5 g/kg</p> <p>Chronic Effects: No chronic health effects reported.</p> <p>Target Organs: No target organs reported.</p> <p>Carcinogenicity: NTP: No IARC: No OSHA: No</p>

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

SECTION XIII - DISPOSAL CONSIDERATIONS
<p>Waste Disposal Method: Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with all Federal, state/provincial and local regulations.</p> <p>Household Use: Consumer produced household solutions may be disposed of down the drain with running water. Consumer may discard empty container in trash, or recycle where facilities exist.</p>

SECTION XIV - TRANSPORT INFORMATION
<p>U.S. D.O.T.: These products are not regulated when transported by ground.</p> <p>IATA: These products are not regulated when transported by air.</p> <p>IMDG: These products are not regulated when transported by vessel.</p>

