



MATERIAL SAFETY DATA SHEET

MSDS: RQ1003262
RQ1003304
RQ1003407

Issue Date: 8/25/2010

SECTION I - PRODUCT IDENTIFICATION

Identity: **Liquid Laundry Detergent**

This MSDS applies to the following Liquid Tide Detergent Brands:

Tide (Original, Free, Mountain Spring, and Clean Breeze)
Tide w/Bleach Alternative. (Original, Mountain Spring, Clean Breeze and Advanced Power Original Scent)
Tide Coldwater(Fresh Scent, Mountain Spring, Free)
Tide w/Febreze Freshness (Sport, Seaside Fresh, Spring & Renewal)
Tide with Dawn Stainscrubbers (Original Scent, Whitewater Clean)
Tide Pure Essentials (with Baking Soda White Lilac)
Tide Total Care (Cool Cotton, Renewing Rain)
Tide with a Touch of Downy (April Fresh, Clean Breeze, Lavender)

High Efficiency Variants:

Tide HE (Original, Free, and Clean Breeze)
Tide w/Bleach Alternative HE (Original, Advanced Power)
Tide Coldwater HE (Fresh Scent, Free)
Tide w/Febreze Freshness HE (Spring & Renewal, Sport)
Tide Total Care HE (Renewing Rain)
Tide with A Touch of Downy HE (April Fresh)

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.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50</u>
Ethanol	Ethyl alcohol	64-17-5	1 - 5%	7.06 g/kg (oral, rat)
Ethanolamine	2-Aminoethanol	141-43-5	1 - 5%	1.7g/kg (oral, rat)
Anionic Surfactants	Alcohol Ethoxysulfate, sodium salt	68585-34-2	10-30% total anionic surfactant	>2g/kg (oral, rat)
	Alcohol Sulfates, sodium salts	68585-47-7		>2000 mg/kg (oral, rat)
	Benzene sulfonic acid, sodium salt	68081-81-2		438 mg/kg (oral, rat) 1330 mg/kg (oral, mouse)
	Benzene sulfonic acid, monoethanolamine salt	68910-32-7		not available
Nonionic Surfactants	Alcohol ethoxylate	68439-49-6	1-5% total nonionic surfactant	5300 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 flashpoint of $\geq 150^{\circ}\text{F}$ 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: CO₂, 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 X - STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: None known.

Materials to Avoid: None known.

Hazardous Decomposition Products: None known.

Possibility of Hazardous Reactions: None known.

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 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.

SECTION XIII - DISPOSAL CONSIDERATIONS

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.

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.

SECTION XIV - TRANSPORT INFORMATION

US DOT: 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.

