



MATERIAL SAFETY DATA SHEET

Issue Date: Oct 2013

SECTION I - PRODUCT IDENTIFICATION

Identity: **3-in-1 Detergent – Unit Dose Liquid Laundry Detergent**

This MSDS applies to the following Tide Pods variants:

Tide Pods Mystic Forest
Tide Pods Alpine Breeze
Tide Pods Ocean Mist
Tide Pods Spring Meadow

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

Transportation Emergencies: CHEMTREC – 1-800-424-9300

* **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 moderate irritation.
Skin Contact: Prolonged contact with concentrated material may be drying or transiently irritating to skin.
Inhalation: May cause transient respiratory irritation.

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.
Inhalation: May cause transient respiratory irritation.

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Anionic and nonionic surfactants, ethoxylated polyethylene polyamine (polymer) 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>
Polymer	Ethoxylated polyethylene polyamine	68130-99-4	3-7%	> 5 g/kg
Anionic surfactants	Alcohols, sulfated, neutralized	68910-32-7	15-40% total	1.09 g/kg
	Alcohols, ethoxylated, sulfated, neutralized	162201-45-8		5 g/kg
Non-ionic surfactants	Alcohols Ethoxylated	68551-12-2	10-30%	> 1000 mg/kg

SECTION IV - FIRST AID INFORMATION**Emergency and First Aid Procedures:**

Ingestion: Drink a glassful of water or milk and call a Poison Control Center or doctor immediately. DO NOT INDUCE VOMITING.

Eye Contact: Rinse immediately with water for 15 minutes and seek medical care.

Skin: Rinse thoroughly with water. Remove contaminated clothing.

If symptoms persist or reoccur, seek medical attention.

Other: Consumer product package has a caution statement: "CAUTION: Eye irritant. May Be Harmful if swallowed. KEEP OUT OF REACH OF CHILDREN. DO NOT INGEST. MAY IRRITATE EYES. Do not get in eyes. To prevent pods from dissolving before use, you should always close the package and handle with dry hands. FIRST AID TREATMENT: Contains nonionic and anionic surfactants, ethoxylated polyethylene polyamine (polymer) and enzymes. If swallowed, give a glass of water or milk and call a Poison Control Center or doctor immediately. Do not induce vomiting. If in eyes, rinse immediately with plenty of water for 15 minutes, and seek medical advice. If on skin or clothing, remove contaminated clothing and rinse skin well with water.

SECTION V - FIRE FIGHTING INFORMATION

Flammable Properties: Flashpoint > 200F. Material does not sustain combustion.

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.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment (see Section VIII).

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: *Industrial Setting:* When handling bulk liquid, operations or procedures which produce mists or aerosols should be avoided..

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: Chemical goggles or other liquid/aerosol tight eye protection should be used if splash or exposure is possible.

Protective Gloves: None required with normal household use.

Industrial Setting: Protective gloves (rubber, neoprene) should be used if handling of the material could result in incidental or prolonged contact.

Other Protective Equipment: None required with normal use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Tide Pods is a three compartment unit dose product. The compartments are white, blue and orange.

Flash Point: > 200 °F

Odor: All products contain perfume/fragrance

Evaporation Rate (nBuOAc=1): Not known

Odor Threshold: Not known.

Explosive Limits: *LEL:* N/A *UEL:* N/A

Physical State: Liquid.

Percent Volatile by Volume (%):

Vapor Pressure (mm Hg): 16 mm Hg @ 20 °C

Specific Gravity (H₂O=1): 1.0675

Vapor Density (Air=1): Not known

Melting/Freezing Point: N/A

Boiling Point Range °F:

pH : 6.8-7.4

Coefficient of Water/Oil Distribution: N/A

Reserve Alkalinity: N/A

Solubility in Water: Completely soluble.

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

Liquidtab 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 environmental 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 in finished product packaging.

Bulk packages (>119 gallons) are regulated as:

UN3082, Environmentally Hazardous Substances, liquid, n.o.s. (alcohol ethoxylates), 9, III, Marine Pollutant.

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

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

SECTION XV - REGULATORY INFORMATION

United States

All intentionally-added components of these products are listed on the US TSCA Inventory.

EPA Registration Number: NA

SARA 313/302/304/311/312 chemicals: None

California: These products have been evaluated and do not require warning labeling under California Proposition 65.

State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS #	Level	CERCLA RQ	State				
				IL	MA	NJ	PA	RI
Propylene Glycol	57-55-6	7-13%	NA			X	X	X

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has 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

Perfumes contained within these products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health: 2	4=EXTREME
	Flammability: 1	3=HIGH
	Reactivity: 0	2= MODERATE
		1=SLIGHT
		0=NOT SIGINIFICANT

*N/A. - Not Applicable

*N/K. – Not Known

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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