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Procter & Gamble  
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# MATERIAL SAFETY DATA SHEET

MSDS #: FH/H/2001/LDLS-4WXHY6  
 Supersedes: L98031M

Issue Date: 6/18/01  
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## SECTION I - CHEMICAL PRODUCT

Identity: **Granular Laundry Detergent**

Brands: **TIDE WITH BLEACH (All variations)**

**“KILLS 99.9% OF BACTERIA”**

Hazard Rating:

Health: 1

4=EXTREME

Flammability: 0

3=HIGH

Reactivity: 0

2= MODERATE

1=SLIGHT

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: Sodium nonanoyloxybenzenesulfonate; perboric acid, sodium salt; surfactants (anionic and nonionic) 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>
Sodium carbonate	Soda Ash	497-19-8	N/A	15-40%	LD50=1.86 g/kg LC50=N/A
Linear alkyl benzene sulfonate	C12.3 LAS	68081-81-2	N/A	3-7%	LD50=0.65-1.26 g/kg LC50=N/A
Subtilisin	Protealytic enzyme	9014-01-1	NIOSH/ ACGIH STEL: 0.00006 mg/m3	0.1-1%	LD50=3.7 g/kg LC50=N/A

Under normal consumer use, this product would not constitute a hazardous product under US OSHA Hazard Communication. With increased exposure (compared with consumer use) this mixture, when tested as a whole, is considered an inhalation hazard (enzymes) and an eye irritant within the meaning of the OSHA Hazard Communication Standard.

\*Subtilisin is listed on Table Z-1-A (1989 Air Contaminants Rule - 29 CFR 1910.1000). Though Table Z-1-A was revoked on 6/30/93, the following U.S. states continue to enforce Table Z-1-A limits: Alaska, California, Connecticut, Maryland, Minnesota, New Mexico, Vermont, Washington, and Virgin Islands. The OSHA STEL (as listed on Table Z-1-A) is 0.00006 mg/m3.

**SECTION III - HAZARDS IDENTIFICATION****Health Hazards (Acute and Chronic):**

Ingestion: May cause transient gastrointestinal irritation.  
 Eye Contact: May cause mild, transient irritation.  
 Inhalation: Heavy exposure to dust may cause transient respiratory tract irritation. Prolonged heavy exposure to dust may cause respiratory sensitization.

**Signs and Symptoms of Exposure:**

Ingestion: Possible mild gastrointestinal irritation with nausea, vomiting, and/or diarrhea.  
 Eye Contact: Eye contact with the product or its aqueous solution may produce transient superficial irritation.  
 Skin: N/A  
 Inhalation: N/A

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

Inhalation: Leave dusty area. In rare cases a respiratory reaction can occur which may include tightness of chest and difficulty breathing. If this occurs, seek medical attention immediately.  
 Ingestion: Give a large glassful of water or milk.  
 Eye Contact: Flush thoroughly with water for 15 minutes.  
 Skin: Rinse skin thoroughly with water.

**Other:** Consumer product packages have a caution statement: "**KEEP OUT OF REACH OF CHILDREN. CAUTION: CAUSES MODERATE EYE IRRITATION. AVOID CONTACT WITH EYES. HARMFUL IF SWALLOWED. FIRST AID: IF SWALLOWED: DRINK 1 OR 2 GLASSES OF WATER. CALL A PHYSICIAN OR POISON CONTROL CENTER. IF IN EYES: IN CASE OF CONTACT IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.**"

**SECTION V - FIRE FIGHTING INFORMATION**

**Flash Point (Method Used):** N/A **Explosive Limits:** LEL: N/A UEL: N/A

**Extinguishing Media:** N/A

**Special Fire Fighting Procedures:** CO<sub>2</sub>, water or dry chemical may be used.

**Unusual Fire Hazards:** N/A

**Stability** *Unstable:* *Conditions to Avoid:* Open flame  
*Stable:* X

**Incompatibility (Materials to Avoid):** None known

**Hazardous Decomposition/By Products:** None known

**Hazardous Polymerization:** *May Occur:* *Conditions to Avoid:* Open flame  
*Will Not Occur:* X

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Minimize dust levels while collecting product (see "Inhalation" health effects). Prevent exposure to dust with NIOSH approved respirators with HEPA filters. Use gloves to minimize skin contact.

**Environmental Precautions:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Small (household) solutions may be disposed of in sewer. Dry product may be landfilled if permitted by local regulations. Do not reuse container except with Tide with Bleach Refill. Discard empty container in trash.

**Steps To Be Taken in Case Material is Released or Spilled:** Flush small (household) quantities down acceptable sanitary/process sewer. Wipe up small spills with a damp cloth. Dispose of according to local regulations.

## SECTION VII - HANDLING AND STORAGE

**Precautions To Be Taken in Handling and Storing:** Avoid skin contact and breathing product dust. Store in a cool, dry place. Keep product dry to maintain free-flowing granules.

**Other Precautions:** None

## SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

**Respiratory Protection (Specify Type):** None required with normal consumer use. Industrial use may require a NIOSH approved respirator with HEPA filters.

<b>Ventilation</b>	<i>Local Exhaust:</i> None required with normal consumer use.	<i>Special:</i> None
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Industrial use may require LEV.

*Mechanical (General):* General dilution ventilation is adequate with normal consumer use. *Other:* None

**Eye Protection:** None required with normal consumer use.

**Industrial setting:** If a splash of product in solution is likely, chemical goggles may be needed.

**Protective Gloves:** None required with normal consumer use.

*Industrial setting:* Protective gloves (rubber, neoprene) should be used for any prolonged direct contact.

**Other Protective Equipment:** None required with normal consumer use.

*Industrial setting:* Protective disposable suits may be required under heavy industrial dust conditions.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point °F:** N/A

**Specific Gravity (H<sub>2</sub>O=1):** N/A

**Vapor Pressure (mm Hg):** N/A

**Percent Volatile by Volume (%):** N/A

**Vapor Density (Air=1):** N/A

Evaporation Rate (nBuOAc=1): N/A

**Odor Threshold: N/A**

**Freezing Point:** N/A

**Coefficient of Water/Oil Distribution:** N/A

**pH (10% solution): ~10.7**

**Scooped Density:** ~667 g/L

**Solubility in Water:** Mostly

**Appearance and Odor:** White granular agglomerate with blue speckles. Product is perfumed.

**Reserve Alkalinity: ~5**

**SECTION X - STABILITY AND REACTIVITY**

**Possible Hazardous Reactions/Conditions:** None known

**Conditions to Avoid:** Open flame

**Materials to Avoid:** None

**Hazardous Decomposition Products:** None known

**Other Recommendations:** None

**SECTION XI - TOXICOLOGICAL INFORMATION**

LD50 (rats oral): 2.8 - 7.1 g/kg

ED50 approx. 15-119 mg/kg

**SECTION XII - ECOLOGICAL INFORMATION**

No concerns at relevant environmental concentrations. This product contains an anionic surfactant that has an aquatic LC50 of 0.92 ppm. However, risk assessments on the finished product confirm objective safety of its usage because of the removal and biodegradability kinetics of the surfactant. The surfactant is rapidly biodegradable under aerobic and anaerobic conditions (protocols: OECD 301-B and ECETOC 1988, respectively). The level of biodegradation in both conditions is >70%.

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Small (household) solutions may be disposed of in sewer. Dry product may be landfilled. Do not reuse empty container except with Tide with Bleach Refill. Discard empty container in trash.

**SECTION XIV - TRANSPORT INFORMATION**

The finished product is non-hazardous under DOT.

**SECTION XV - ADDITIONAL REGULATORY INFORMATION**

All intentionally-present components of Tide with Bleach are listed on the US TSCA Inventory. No components are affected by Significant New Use Rules (SNURs) under TSCA §5.

Tide with Bleach is not subject to labeling under California Proposition 65.

Sodium carbonate (497-19-8) is listed on the Canadian WHMIS Ingredient Disclosure List (IDL) as item number 1431, with a threshold of 1%.

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified with Hazard Criteria of the Canadian Controlled 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.