



Procter & Gamble
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MATERIAL SAFETY DATA SHEET

MSDS #: FH/H/2002/GLGL-59YQJN
Supersedes: FH/H/2001/TATJ-52VQNT

Issue Date: 5/13/02
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SECTION I - PRODUCT IDENTIFICATION

Identity: Granular Laundry Detergent

Brands: TIDE (All Variations)

Hazard Rating:	Health:	1	4= EXTREME
	Flammability:	0	3= HIGH
	Reactivity:	0	2= MODERATE
			1= SLIGHT

Emergency Telephone Number: 1-800-879-8433 or call Local Poison Control Center

SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Tide: Biodegradable surfactants and enzymes.

Tide with Bleach: Biodegradable surfactants, enzymes and a color-safe oxygen bleach.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200., and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Recommended Limits</u>	<u>Composition Range</u>	<u>LD50 and/or LC50</u>
Sodium carbonate	Soda ash	497-19-8	N/K	15-40%	1.9 g/kg (rats, oral)
Subtilisin*	Proteolytic enzyme	9014-01-1	NIOSH/ACGIH STEL 0.00006 mg/m ³	0.1-1.0%	> 5 g/kg (rats, oral)
Linear alkyl benzene sulfonate	C12.3 LAS	68081-81-2	N/K	3-7%	0.7-1.3 g/kg (rats, oral)
High solubility alkyl sulfate	Anionic surfactant	Proprietary	N/K	5-10%	2.1 g/kg (rats, oral)
Cellulase enzyme	Carezyme	9012-54-8	N/K	0.1-1.0%	> 5 g/kg (rats, oral)

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 Though Table Z-1-A was revoked on 6/30/93, the following U.S. states continue to enforce Table Z-1-A limits: Alaska, Connecticut, Minnesota, Michigan, New York, Tennessee, Vermont, and Washington. 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: Contact may cause mild, transient irritation.

Skin: None.

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: None.

Inhalation: Heavy exposure to dust may cause transient respiratory tract irritation.

SECTION IV - FIRST AID INFORMATION

Emergency and First Aid Procedures:

Ingestion: Give milk or water.

Eye Contact: Flush eyes with water for 15 minutes.

Skin: Rinse exposed area with water.

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.

Other: Consumer product packages have a caution statement: "CAUTION: EYE IRRITANT. MAY BE HARMFUL IF SWALLOWED. In case of eye contact, flush with water. If swallowed, give a glassful of water or milk. Call a physician. KEEP OUT OF REACH OF CHILDREN."

SECTION V - FIRE FIGHTING INFORMATION

Flash Point: N/A

Explosive Limits: LEL: N/A

Method Used: N/A

UEL: N/A

Extinguishing Media: CO₂, water, or dry chemical may be used. Firefighters should be equipped with self-contained breathing apparatus to protect against potentially irritating or sensitizing fumes.

Special Fire Fighting Procedures: None.**Unusual Fire Hazards:** None known.**Stability** Unstable: ☐

Conditions to Avoid: Open flame.

Stable: ☒**Incompatibility (Materials to Avoid):** None known.**Hazardous Decomposition/By Products:** None known.**Hazardous Polymerization:** May Occur: ☐

Conditions to Avoid: Open flame.

Will Not Occur: ☒