



The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
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MATERIAL SAFETY DATA SHEET

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SECTION I - CHEMICAL PRODUCT
Product Identity: Laundry Bleach Powder In-Wash Detergent Booster Product
Product Brand: *TIDE STAIN RELEASE POWDER
Emergency Contact Telephone Number: CHEMTREC 1-800-424-9300

SECTION II - HAZARDS IDENTIFICATION
Emergency Overview: If spilled, an irritating dust could be released into the air so the immediate area should be evacuated. When cleaning up a spill, if dust is evident, a respirator with a P100 HEPA cartridge should be worn. The product contains enzymes (respiratory sensitizer) and a strong oxidizing agent (sodium percarbonate). Spilled materials should be picked up and not flushed to a sewer or surface waterway.
Potential Health Hazards Inhalation: The product contains enzymes so repeated, prolonged exposure to the powder may result in sensitization and transient "hay-fever like" symptoms. The product also contains sodium percarbonate which is irritating to the mucous lining of the nose, throat and eyes. Eye Contact: May cause moderate, reversible irritation (stinging, tearing, swelling or redness). Skin: Repeated and prolonged contact may cause mild, transient irritation. Ingestion: Although an unlikely occupational exposure route, ingestion may cause transient gastrointestinal irritation with nausea, vomiting or diarrhea.
Medical Conditions Generally Known to be Aggravated by Exposure: Pre-existing sensitization to enzymes could cause asthma-like symptoms to occur.
Target Organ: Respiratory system
Potential Environmental Effects: See Section XII

SECTION III - COMPOSITION AND INGREDIENTS			
Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.			
Chemical Name	CAS No.	Composition Range	LD50/LC50
Sodium percarbonate	15630-89-4	≤ 50%	1.0 – 3 g/kg (rats, oral)
Sodium nonanyloxybenzenesulfonate	Mixture	5 - 30%	
Sodium carbonate	497-19-8	10 – 30%	1.9 g/kg (rats, oral)
Silicic acid, aluminum salt (zeolite)	1344-00-9	10 – 20%	N/A
While not considered hazardous under OSHA, 29 CFR 1910.1200, this product contains enzymes which Procter & Gamble has established an Occupational Exposure Guideline of 2.5 – 15 ng/m ³ .			

SECTION IV – FIRST AID INFORMATION
<p>First Aid Procedures</p> <p>Inhalation: Remove to fresh air. If breathing difficulties occur, seek immediate medical attention.</p> <p>Eye Contact: Rinse eyes with water for at least 15 minutes. If irritation persists, seek medical attention.</p> <p>Skin Contact: Thoroughly wash and rinse the area with a mild soap and water. If irritation persists, seek medical attention.</p> <p>Ingestion: Rinse mouth with water. If irritation occurs or persists, seek medical attention.</p>
Note to Physician: Treat symptomatically

SECTION V - FIRE FIGHTING INFORMATION
<p>Flammable Properties: Product can self react at elevated temperatures, releasing oxygen and steam.</p> <p>Upper Flammable Limit: na</p> <p>Lower Flammable Limit: na</p>
<p>Explosive Limits: UEL: Unknown LEL: Unknown</p>
<p>Auto-Ignition Temp: Unknown</p>
<p>Hazardous Combustion Products: Potential oxides of carbon, nitrogen and sulfur when burned in a fire</p>
<p>Explosive Data – Kst = 34 bar-m/sec; Pmax = 5.8 bar</p>
<p>Extinguishing Media</p> <p>Suitable: Water</p> <p>Unsuitable: None</p>
<p>Protection of Firefighters</p> <p>Specific Hazards Arising from the Material: Product contains an oxidizer and enzymes.</p> <p>Protective Equipment and Precautions for Firefighters: Standard turnout gear including SCBA</p>

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Safety glasses with side shields, a respirator with P100 HEPA cartridges and nitrile gloves should be worn when exposure to large quantities of the powder are possible.

Environmental Precautions

Methods for Containment: Spilled material should be diked to prevent release to a sewer or surface waterway.

Methods for Cleanup: Scoop or shovel spilled material into a drum or bucket and dispose of following all Federal, State and Local Regulations.

Other Information: Bulk: Do not return swept-up material to the original container or storage. Damp material may give off oxygen or steam. See Section XIII for additional information.

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: Prevent exposures to product dust.

Precautions To Be Taken in Storage: Store in a cool, dry location. Keep product dry to maintain free-flowing granules.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines: The exposure guideline for the bleach powder is 15 mg/m³ (OSHA PEL for total dust). P&G's OEG for enzyme exposures is 2.5 – 15 ng/m³

Engineering Controls: Local exhaust ventilation should be used to control dust exposures.

Personal Protective Equipment

Eye/Face Protection: Safety glasses with side shields

Skin Protection: Butyl or nitrile gloves

Respiratory Protection: Respirator with P100 cartridges when exposed to product dust

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder with blue speckles	Flash Point: Combustible Dust
Odor: Perfumed	Decomposition Temperature: NA
Odor Threshold: NA	Evaporation Rate (nBuOAc=1): NA
Physical State: Powder	Specific Gravity/Density: 1.05 – 1.08 gm/cc Density: 700 – 900gm/L (800gm/L +/- 100gm/L)
Vapor Pressure (mm Hg): NA	Melting/Freezing Point: NA
Vapor Density (Air=1): NA	pH (10% solution): 9.3 – 9.9 (9.6 +/- 0.3)
Boiling Point: NA	Reserve Alkalinity: NA
Partition Coefficient (n-octanol/water): NA	Solubility in Water: Soluble

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal household conditions. No decomposition if stored and used according to instructions.

Conditions to Avoid: Temperatures above 120 F; high humidity

Incompatible Materials: Metals, metallic salts, acids, alkalis and reducing agents

Hazardous Decomposition Products: Steam, oxygen and oxides of carbon, nitrogen and sulfur.

Possibility of Hazardous Reactions: Contains sodium percarbonate, an oxidizer.

SECTION XI - TOXICOLOGICAL INFORMATION

Acute Toxicity: None known

Chronic Effects: Possible enzyme sensitization

Target Organs: Respiratory system

Carcinogenicity: While not tested as a whole, none of the components in this product have been found to be carcinogenic.

NTP: No

IARC: No

SECTION XII - ECOLOGICAL INFORMATION

While not tested as a whole, based on the ecotoxicity and biodegradability of the individual components in the powdered bleach, it is expected that this product will exhibit a non-hazardous order of toxicity at relevant environmental concentrations.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. This product has self-reactive properties, but is not classified as D003 under Federal RCRA regulations (40 CFR 261).

SECTION XIV - TRANSPORT INFORMATION

Product has been classified by the US DOT as a 4.1 Self-reactive, Type G material.

Per the US DOT regulations for 4.1 G materials, this product is not subject to provisions of the Hazardous Materials Regulations (49 CFR 173.124 (a)(2)(i) (E)).

IMDG: Product is classified as 4.1 Self-reactive, Type G material

IATA: Product is classified as 4.1 Self-reactive, Type G material

Canada TDG: Product is classified as 4.1 Self-reactive, Type G material

SECTION XV - ADDITIONAL REGULATORY INFORMATION

All intentionally-added components to the Laundry Product are listed on the US TSCA Inventory.

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

States:

California Proposition 65: Product has been evaluated and does not require warning labeling under California Proposition 65.

State Right-to-Know and CERCLA

The following ingredients are present in the (product description) at a level $\geq 1\%$ and are listed on one or more State Right-to-know or State Worker Exposure Lists:

Ingredient	CAS#	Level	States				
			IL	MA	NJ	PA	RI
Sodium Percarbonate	15630-89-4	$\leq 50\%$			X		
Zeolite	1344-00-9	10 – 20%	X		X	X	
Sodium sulfate	7757-82-6	5 – 15%		X		X	

CERCLA RQ

None

SECTION XVI - OTHER INFORMATION

Perfumes contained within the product/s covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating: 2	Health: 2	4 = Extreme
	Flammability: 1	3 = High
	Reactivity: 2	2 = Moderate
		1 = Slight
		0 = Not Significant

Product is a Class I Reactive under the International Building Code.

*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.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons or for any damage to any property resulting from misuse of the product.