



The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

Issue: RQ0901336

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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/m³.

SECTION IV – FIRST AID INFORMATION**First Aid Procedures**

Inhalation: Remove to fresh air. If breathing difficulties occur, seek immediate medical attention.

Eye Contact: Rinse eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

Skin Contact: Thoroughly wash and rinse the area with a mild soap and water. If irritation persists, seek medical attention.

Ingestion: Rinse mouth with water. If irritation occurs or persists, seek medical attention.

Note to Physician: Treat symptomatically

SECTION V - FIRE FIGHTING INFORMATION

Flammable Properties: Product can self react at elevated temperatures, releasing oxygen and steam.

Upper Flammable Limit: na

Lower Flammable Limit: na

Explosive Limits: UEL: Unknown LEL: Unknown

Auto-Ignition Temp: Unknown

Hazardous Combustion Products: Potential oxides of carbon, nitrogen and sulfur when burned in a fire

Explosive Data – Kst = 34 bar-m/sec; Pmax = 5.8 bar

Extinguishing Media

Suitable: Water

Unsuitable: None

Protection of Firefighters

Specific Hazards Arising from the Material: Product contains an oxidizer and enzymes.

Protective Equipment and Precautions for Firefighters: Standard turnout gear including SCBA

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.

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