MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT

<table>
<thead>
<tr>
<th>Product Identity:</th>
<th>Laundry Bleach Powder In-Wash Detergent Booster Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Brand:</td>
<td>*TIDE STAIN RELEASE POWDER</td>
</tr>
</tbody>
</table>

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 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 way 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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Composition Range</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium percarbonate</td>
<td>15630-89-4</td>
<td>&lt; 50%</td>
<td>1.0 – 3 g/kg (rats, oral)</td>
</tr>
<tr>
<td>Sodium nonanyloxybenzenesulfonate</td>
<td>Mixture</td>
<td>5 - 30%</td>
<td></td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>10 – 30%</td>
<td>1.9 g/kg (rats, oral)</td>
</tr>
<tr>
<td>Silicic acid, aluminum salt (zeolite)</td>
<td>1344-00-9</td>
<td>10 – 20%</td>
<td>N/A</td>
</tr>
</tbody>
</table>

While not considered hazardous under OSHA, 29 CFR1910.1200, 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; $P_{max} = 5.8$ 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/m$^3$ (OSHA PEL for total dust). P&G’s OEG for enzyme exposures is 2.5 – 15 ng/m$^3$

**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

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

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 ≥1% and are listed on one or more State Right-to-know or State Worker Exposure Lists:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS#</th>
<th>Level</th>
<th>IL</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Percarbonate</td>
<td>15630-89-4</td>
<td>≤ 50%</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zeolite</td>
<td>1344-00-9</td>
<td>10 – 20%</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>5 – 15%</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
Flammability: 1
Reactivity: 2

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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