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MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION

Identity: GRANULAR LAUNDRY DETERGENT FINISHED PRODUCT

Brands: Tide Professional with Oxy-Bleach

P&G Telephone Number: 1-800-332-7787 or call Local Poison Control Center or your physician.

Transportation Emergency (24 hour) Telephone Number – CHEMTREC: 1-800-424-9300 – U.S. and Canada;
1-703-527-3887 – for calls originating elsewhere.

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: May cause transient gastrointestinal irritation.

Eye Contact: Contact may cause mild, transient irritation.

Skin Contact: N/A

Inhalation: Heavy exposure to dust may cause transient respiratory tract irritation. Prolonged or repeated heavy exposure to dust may cause respiratory sensitization or symptomtic responses.

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 Contact: N/A

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

Medical Conditions Generally Known to be Aggravated by Exposure: N/K.

Potential Environmental Effects: (See Section 12 for more information)

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients listed on the product label are: biodegradable anionic surfactants and enzymes.
Hazardous Ingredients as defined by WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Sodium Carbonate	Soda Ash	497-19-8	30-60%	1.9 g/kg (rats, oral)
Sodium Carbonate Peroxide	Percarbonate	15630-889-4	5 – 10%	1 – 3 g/kg rat
Silicate	Silicate	1344-09-8	1-5%	1.3 g/kg (rats oral)
Silicic Acid Aluminum Salt	Zeolite	1344-00-9	15-40%	N/A
Alkyl Sulfate, Sodium Salt	Anionic Surfactant	68955-19-1 & Proprietary		1.3 - 2.1 g/kg (rats, oral)
Linear Alkyl Benzene Sulfonic Acid, Sodium Salt	Anionic Surfactant	68081-81-2	10 – 30% Total Anionic Surfactant	0.7 – 1.3 g/kg (rats, oral)
Alcohol Ethoxysulfate, sodium salt	Anionic Surfactant	68585-34-2		>2 g/kg (rats, oral)
Benzene sulfonic acid, Monoethanolamine salt	Anionic Surfactant	68910-32-7		Not available

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

Ingestion: Dilute by drinking 1-2 glasses of water. Do NOT induce vomiting. If symptoms persist, consult a physician.

Eye Contact: Flush eyes thoroughly with lukewarm water for 15 minutes. If irritation persists, consult a physician.

Skin Contact: Rinse exposed area with water. If irritation persists, consult a physician.

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.

Note to Physician: (if applicable):

Other: Package has the following precautionary statement:

CAUTION: MAY IRRITATE EYES. Do not get in eyes. KEEP OUT OF REACH OF CHILDREN. MAY BE HARMFUL IF SWALLOWED. FIRST AID TREATMENT: Contains biodegradable anionic surfactants and enzymes. If swallowed, give a glassful of water or milk and call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse them well with water for 15 minutes.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): N/A

Flammable Properties:

Upper Flammable Limit: N/K

Lower Flammable Limit: N/K

Explosive Limits: UEL: N/A LEL: N/A**Auto-ignition Temperature:** N/A**Hazardous Combustion Products:** N/K**Explosion Data (Sensitivity to Mechanical Impact):** N/K**Explosion Data (Sensitivity to Static Discharge):** N/K**Extinguishing Media:**Suitable: CO₂, water, or dry chemical

Unsuitable: N/K

Protection of Firefighters:

Specific Hazards Arising from the Material: N/K

Protective Equipment and Precautions for Firefighters: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially irritating or sensitizing fumes.

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. Minimize prolonged skin contact by using gloves.**Environmental Precautions:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, PROVINCIAL AND LOCAL REGULATIONS. Small (household) solutions may be disposed of in sewer. Dry product may be landfilled if permitted by local regulations. Discard empty container in trash. Waste water containing product may be sewerred in compliance with all federal and state/provincial regulations, and local ordinances.**Methods for Containment:** For dry product spills, collect material in an approved container while minimizing dust generation. Vacuum, as appropriate, remaining dust on floor.**Methods for Cleanup:** Recycle or dispose of product, as necessary, in accordance with regulations. Flush small (household) quantities down acceptable sanitary/process sewer. Wipe up small spills with a damp cloth. Dispose of according to local regulations.**Other Information:** (if applicable):**SECTION VII - HANDLING AND STORAGE****Precautions To Be Taken in Handling:** Avoid breathing product dust.**Precautions To Be Taken in Storage:** Store in a cool, dry place. Keep product dry to maintain free-flowing granules.**SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Guidelines:** Minimize dust.**Engineering Controls:** N/A**Personal Protective Equipment (PPE):**

Eye/Face Protection: None required for normal, consumer use.
 Skin Protection: None required for normal, consumer use.
 Respiratory Protection: None required for normal, consumer use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): White powder with or without colored speckles	Flash Point (Method Used): N/A
Odor: Scented and/or unscented.	Reserve Alkalinity: ~ 5-8.75 g NaOH/100 mL (at pH=9.5)
Odor Threshold: N/A	Solubility in Water: Mostly soluble at 68°F (20°C)
Physical State: Solid granules at 68°F (20°C)	Decomposition Temperature: N/A
Vapor Pressure (mm Hg): N/A	Evaporation Rate (nBuOAc=1): N/A
Vapor Density (Air=1): N/A	Specific Gravity/Density: Density 410-505 g/L
Boiling Point: N/A	Melting/Freezing Point: N/A
Partition Coefficient (n-octanol/water): N/A	pH (of a 1% solution): 10-11.5
Volatile Organic Compound (VOC): Not Applicable	

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable.
Conditions to Avoid: Open flame.
Incompatible Materials: N/K
Hazardous Decomposition Products: N/K
Possibility of Hazardous Reactions: N/K

SECTION XI - TOXICOLOGICAL INFORMATION

Granular detergent has a relative low order of toxicity. If ingested, it may result in mild gastrointestinal irritation, diarrhea, and/or vomiting. Eye contact with the product or its aqueous solution may produce transient superficial irritation.

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished consumer product is not carcinogenic.

NTP: No*

IARC: No*

*NTP and IARC information confirmed via Ariel.

SECTION XII - ECOLOGICAL INFORMATION

Based on ecotoxicity and chemical fate data the ingredients in this product are not expected to harm the environment when disposed of through normal routes of use. The surfactants in this detergent are readily biodegradable and well removed during sewage treatment processing.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.

Non-Household Setting (federal): Products covered by this MSDS, in their original form, when disposed as waste, are considered non-hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, provincial and federal regulations.

Household Use: Consumer may discard empty container in trash, or recycle where facilities exist. Consumer produced household solutions may be disposed of down the drain with running water. Product used in household may be disposed of in refuse or in sewer.

SECTION XIV - TRANSPORT INFORMATION

Products covered by this MSDS, in their original form, are not regulated for transportation.

Ground Transport (US DOT): Not regulated

Air Transport (IATA): Not regulated

Marine/Water Transport (IMDG): Not regulated

SECTION XV - REGULATORY INFORMATION

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

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

This product falls under Class D, Division 2, Subdivision B (eye irritant) of the Controlled Products Regulations.

SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating: Health: 1 4=EXTREME
Flammability: 1 3=HIGH
Reactivity: 0 2=MODERATE
1=SLIGHT
0=NOT SIGNIFICANT

*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 the 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.