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MATERIAL SAFETY DATA SHEET

Supersedes: N/A

Issue Date: 8/01

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SECTION I - CHEMICAL PRODUCT

Identity: **Granular Cleaner**

Brands: **INSTITUTIONAL FORMULA TIDE Floor & All-Purpose Cleaner** (non-phosphate & phosphate)

Hazard Rating: 1

Health: 1

4=EXTREME

Flammability:

3=HIGH

Reactivity:

2= MODERATE

1=SLIGHT

Emergency Telephone Number: - 1-800-332-7787 or call Local Poison Control Center

SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Anionic surfactants, water softeners (sodium carbonate, complex sodium phosphates[phosphate version only]), processing aids (sodium sulfate), washer protection agents (sodium silicates), fabric whiteners, perfume and agents to prevent deposition.

This mixture, when tested as a whole, is considered an eye irritant within the meaning of the OSHA Hazard Communication Standard.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Recommended Limits</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Sodium carbonate	Soda Ash	497-19-8	N/A	15-40%	LD50=1.86 g/kg LC50=N/A
Linear alkyl benzene sulfonate	C12.3 LAS	68081-81-2	N/A	15-30%	LD50=0.65-1.26 g/kg LC50=N/A

SECTION III - HAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

Eye Contact: : May cause mild, transient irritation.

Ingestion: May cause transient gastrointestinal irritation.

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

Signs and Symptoms of Exposure:

Eye Contact: Eye contact with the product or its aqueous solution may cause transient superficial irritation.

Ingestion: Possible mild gastrointestinal irritation with nausea, vomiting and/or diarrhea.

Skin: N/A

Inhalation: Exposure to dust in a manufacturing setting may cause coughing, sore throat, wheezing or transitory shortness of breath.

SECTION IV - FIRST AID INFORMATION

Emergency and First Aid Procedures:

Eye Contact: Flush with large amounts of water for at 10-15 minutes.
Ingestion: Drink a large glasses of water or milk.
Skin: Rinse skin thoroughly with water.
Inhalation: Leave dusty area.

Other: Product package has a caution statement: CAUTION:. May cause eye irritation. Eye contact, may result in mild to moderate transient irritation unless rinsed immediately and thoroughly with water for 15 minutes.. If irritation persists, seek medical attention. Harmful if swallowed. If swallowed, drink a glass of water or milk.. Seek medical attention. KEEP OUT OF REACH OF CHILDREN

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): N/A **Explosive Limits: LEL:** N/A **UEL:** N/A
Extinguishing Media: CO₂, water, or dry chemical
Special Fire Fighting Procedures: Use water to keep fire exposed container cool.
Unusual Fire Hazards : N/A

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Solutions may be disposed of in sewer. Dry product may be landfilled if permitted by local regulations. Discard empty container in trash.

Steps To Be Taken in Case Material is Released or Spilled: Dispose as dry scrap or flush small quantities down acceptable sewer(contains biodegradable surfactants). Dispose of according to local regulations.

SECTION VII - HANDLING AND STORAGE

Precautions To Be Taken in Handling and Storing: Store in a cool, dry place. Keep product dry to maintain free-flowing granules.

Other Precautions: None

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection (Specify Type): None required with normal use.

Ventilation *Local Exhaust:* None required with normal use.

Special: None

Mechanical (General): Acceptable.

Other: None

Eye Protection: None required with normal use.

Manufacturing Setting: With dusty conditions or if a splash is likely, chemical goggles may be needed.

Protective Glove s: None required with normal use.

Manufacturing Setting: Protective gloves (rubber, neoprene) should be used for any prolonged direct contact.

Other Protective Equipment: None required with normal use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point ° F: N/A

Specific Gravity (H₂O=1): N/A

Vapor Pressure (mm Hg): N/A

Percent Volatile by Volume (%): N/A

Vapor Density (Air=1): N/A

Evaporation Rate (nBuOAc=1): N/A

Odor Threshold: N/A

Freezing Point: N/A

Coefficient of Water/Oil Distribution: N/A

pH (1% solution): <11.3

Scooped Density: 0.29/cc (bulk density)

Solubility in Water: Mostly

Appearance and Odor: White granule with bland odor

Reserve Alkalinity: N/A

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: None known

Conditions to Avoid: None

Materials to Avoid: None

Hazardous Decomposition Products: None known

Other Recommendations: None

Stability: Stable

Hazardous Polymerizations: Will not occur

SECTION XI - TOXICOLOGICAL INFORMATION

LD50 (rats oral): 2.8-7.1g/kg

ED50 approx. 15-120 mg/kg

SECTION XII - ECOLOGICAL INFORMATION

No concerns

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. Small quantities may be disposed of in sewer. Dry product may be landfilled. Discard empty container in trash.

SECTION XIV - TRANSPORT INFORMATION

DOT Classification: The finished product is not DOT hazardous.

SECTION XV - ADDITIONAL REGULATORY INFORMATION

All components are listed on the US TSCA Inventory. No components are affected by Significant New Use Rules (SNURs) under TSCA §5.

No components of Tide are subject to California Proposition 65.

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified with Hazard Criteria of the Canadian Control Products Regulation (CPR) and this MSDS contains all information required by the Canadian Products Regulation.

SECTION XVI - OTHER INFORMATION

*N/A. - Not Applicable

*N/K. - Not Known

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.