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 Procter & Gamble
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 Cincinnati, OH 45202

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 phodpstes[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.					
Chemical Name	Common Name	CAS No.	Recommended Limits	Composition Range	LD50/LC50
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 VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION		
Respiratory Protection (Specify Type): None required with normal use.		
Ventilation	<i>Local Exhaust:</i> None required with normal use.	<i>Special:</i> None
	<i>Mechanical (General):</i> Acceptable.	<i>Other:</i> None
Eye Protection: None required with normal use.		
<i>Manufacturing Setting:</i> With dusty conditions or if a splash is likely, chemical goggles may be needed.		
Protective Glove s: None required with normal use.		
<i>Manufacturing Setting:</i> 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.