



# MATERIAL SAFETY DATA SHEET

Supersedes: N/A

Issue Date: 8/01

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SECTION I - CHEMICAL PRODUCT		
Identity: <b>Granular Cleaner</b>		
Brands: <b>INSTITUTIONAL FORMULA TIDE Floor &amp; All-Purpose Cleaner</b> (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.					
<b>Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.</b>					
<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	
<b>Health Hazards (Acute and Chronic):</b>	
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.
<b>Signs and Symptoms of Exposure:</b>	
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	
<b>Respiratory Protection (Specify Type):</b> None required with normal use.	
<b>Ventilation</b>	<i>Local Exhaust:</i> None required with normal use. <span style="float: right;"><i>Special:</i> None</span>
	<i>Mechanical (General):</i> Acceptable. <span style="float: right;"><i>Other:</i> None</span>
<b>Eye Protection:</b> None required with normal use.	
<i>Manufacturing Setting:</i> With dusty conditions or if a splash is likely, chemical goggles may be needed.	
<b>Protective Gloves:</b> None required with normal use.	
<i>Manufacturing Setting:</i> Protective gloves (rubber, neoprene) should be used for any prolonged direct contact.	
<b>Other Protective Equipment:</b> None required with normal use.	

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES	
<b>Boiling Point °F:</b> N/A	<b>Specific Gravity (H<sub>2</sub>O=1):</b> N/A
<b>Vapor Pressure (mm Hg):</b> N/A	<b>Percent Volatile by Volume (%):</b> N/A
<b>Vapor Density (Air=1):</b> N/A	<b>Evaporation Rate (nBuOAc=1):</b> N/A
<b>Odor Threshold:</b> N/A	<b>Freezing Point:</b> N/A
<b>Coefficient of Water/Oil Distribution:</b> N/A	<b>pH (1% solution):</b> <11.3
<b>Scooped Density:</b> 0.29/cc (bulk density)	<b>Solubility in Water:</b> Mostly
<b>Appearance and Odor:</b> White granule with bland odor	<b>Reserve Alkalinity:</b> N/A

SECTION X - STABILITY AND REACTIVITY	
<b>Possible Hazardous Reactions/Conditions:</b> None known	
<b>Conditions to Avoid:</b> None	
<b>Materials to Avoid:</b> None	
<b>Hazardous Decomposition Products:</b> None known	
<b>Other Recommendations:</b> None	
<b>Stability:</b>	Stable
<b>Hazardous Polymerizations:</b>	Will not occur

SECTION XI - TOXICOLOGICAL INFORMATION	
LD50 (rats oral): 2.8-7.1g/kg	
ED50 approx. 15-120 mg/kg	

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