



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.

<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: CO ₂ , 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	<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 Gloves: 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	

