



The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #: RQ0809927
Supersedes: N/A

Issue Date: 8/22/08
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SECTION I - PRODUCT IDENTIFICATION

Identity: **Washing Machine Cleaner** **Finished Product**

Brands: **TIDE**

P&G Telephone Number: 1-800-879-8433

or call Local Poison Control Center or your physician.

SECTION II - HAZARDS IDENTIFICATION

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

Eye Contact: Dust from the product will be irritating to the eyes.

Skin: May cause minor, transient skin irritation.

Ingestion: May be harmful if swallowed.

Inhalation: Dust from the product may be irritating to the respiratory system. The product does not contain enzymes.

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: Transient skin irritation.

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: CONTAINS NO PHOSPHATE.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

This product is hazardous under U.S. OSHA Hazard Communication (Eye Irritant).

| <u>Chemical Name</u> | <u>Common Name</u> | <u>CAS No.</u> | <u>Composition</u> <u>Range</u> | <u>LD50/LC50</u> |
|--------------------------------|---------------------|----------------|------------------------------------|-----------------------------|
| Sodium Carbonate | Soda Ash | 497-19-8 | 10-20% | 1.9 g/kg (rats, oral) |
| NOBS | Proprietary Mixture | Proprietary | 10-20% | None established |
| Sodium Carbonate Peroxide | Percarbonate | 15630-89-4 | 10-20% | 2.4 g/kg (rats, oral) |
| Linear Alkyl Benzene Sulfonate | LAS | 68081-81-2 | 1-5% | 0.7 – 1.3 g/kg (rats, oral) |
| Silicic acid, aluminum salt | Zeolite | 1344-00-9 | 1-5% | > 27 g/kg (rats, oral) |

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: If swallowed, rinse mouth with water provided the person is conscious. Do not induce vomiting. If irritation persists, seek medical attention.

Eye Contact: In case of contact, immediately flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

Skin Contact: In case of contact, wash area with soap and water and rinse well. If irritation persists, seek medical attention.

Inhalation: If the dust is inhaled, remove to fresh air. If breathing becomes difficult, seek medical attention.

Note to Physician: (if applicable): Treat symptomatically.

Other: Consumer product package has the following precautionary statement:

US:

FRONT LABEL: “CAUTION: EYE IRRITANT. MAY BE HARMFUL IF SWALLOWED. SEE CAUTION ON BACK PANEL.”

BACK LABEL: “CAUTION: In case of eye contact, flush, with water. If swallowed, give a glassful of water or milk. Call a physician. KEEP OUT OF REACH OF CHILDREN.”

CANADA:

BACK LABEL: “CAUTION: MAY IRRITATE EYES. Do not get in eyes. KEEP OUT OF REACH OF CHILDREN. **FIRST AID TREATMENT:** Contains Sodium carbonate, Percarbonate and Nonanoic Acid Sulfophenyl Ester Sodium Salt. If swallowed, call Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes.”

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): N/A.

Flammable Properties:

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

Explosive Limits: UEL: U/K LEL: U/K

Auto-ignition Temperature: U/K

Hazardous Combustion Products: O₂ and oxides of carbon, nitrogen and sulfur

Explosion Data (Sensitivity to Mechanical Impact): U/K

Explosion Data (Sensitivity to Static Discharge): U/K

Extinguishing Media:

Suitable: CO₂, water, or dry chemical may be used.

Unsuitable: None.

Protection of Firefighters:

Specific Hazards Arising from the Material: The detergent granule may release O₂ in a fire.

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 ALL FEDERAL, STATE/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 sewer in compliance with all federal and state/provincial regulations, and local ordinances.

Steps To Be Taken in Case Material is Released or Spilled: Review Personal Precautions, FIRE FIGHTING MEASURES, HANDLING AND STORAGE, and EXPOSURE CONTROL, PERSONAL PROTECTION sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up. Spilled material may be a slip hazard.

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 and other requirements in this section. 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): The detergent granule does not contain enzymes.

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: Avoid skin contact and breathing product dust.

Precautions To Be Taken in Storage: Store in a cool (<100°F), dry place. Keep product dry to maintain free-flowing granules.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

This section only applies to the product when used in the workplace setting.

Exposure Guidelines: 0.1 mg/m³ Industry Recommendation. Minimize dust. Avoid contact with eyes, skin and clothing.

Engineering Controls: N/A

Personal Protective Equipment (PPE):

Eye/Face Protection: None required for normal, consumer use. When working with bulk material, use safety glasses w/side shields.

Skin Protection: None required for normal, consumer use. When working with bulk material, wear nitrile or butyl gloves.

Respiratory Protection: None required in normal use. When working with bulk material that may be dusty, a NIOSH approved respirator with HEPA P100 cartridges is recommended..

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape):

White powder with blue speckles

Odor: Perfumed.

Odor Threshold: U/K

Physical State: Powder

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Boiling Point: N/A

Partition Coefficient (n-octanol/water): N/A

Volatile Organic Compound (VOC): Not Applicable - Product not regulated for VOC Content at State or Federal level.

Flash Point (Method Used): N/A

Reserve Alkalinity: 6.2 gr NaOH/100 gr solid to pH 9.5

Solubility in Water: Soluble

Decomposition Temperature: N/A

Evaporation Rate (nBuOAc=1): N/A

Specific Gravity/Density: Density 600-700 g/L

Melting/Freezing Point: N/A

pH (of a 1% solution): 9.5-10.5

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: The product contains 10 – 20% of an oxygen bleach.

Conditions to Avoid: May decompose at temperatures $\geq 140^{\circ}\text{F}$ (60°C).

Incompatible Materials: Strong reducing agents, acids, organics or finely powdered metals.

Hazardous Decomposition Products: O₂ which could contribute to a fire.

Possibility of Hazardous Reactions: None known.

SECTION XI - TOXICOLOGICAL INFORMATION

Based on similar detergent granules, this product is expected to exhibit a generally low order of acute toxicity however. It may be irritating to the mucous membranes and the gastrointestinal tract, but is not expected to be corrosive.

Chronic Effects: None known.

Target Organs: Eyes.

Carcinogenicity: No.

NTP: No

IARC: No

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). Although this product has self-reactive properties at elevated temperatures, is not a D003 under the RCRA regulations. Disposal should be in accordance with local, state and federal regulations.

Non-Household Setting (California): California Waste : Hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24.

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.

