



Tide  
 PACKAGED SOAP AND DETERGENT DIVISION  
 IVORYDALE TECHNICAL CENTER  
 CINCINNATI, OHIO 45217

AUG 19 1991  
*Laundry  
 General  
 Services*

PROCTER & GAMBLE

MATERIAL SAFETY DATA SHEET

Issue Date: 2/90

SECTION I

EMERGENCY TELEPHONE NUMBERS

24 Hour P&G Operator Service 1-800-543-0485 or call local  
 Poison Control Center.

IDENTITY

TIDE (Laundry Granules)

YS, YN, ZS, ZN

OTHER

Ingredients: Cleaning agents (anionic surfactants and enzymes), water softeners (either complex sodium phosphates or aluminosilicates, sodium carbonate), processing aids (sodium sulfate), washer protection agents (sodium silicates), fabric whitener, with or without perfume, and an agent to prevent deposition.

SECTION II -- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION  
 HAZARDOUS INGREDIENTS AS DEFINED BY OSHA, 29 CFR 1910.1200.

CHEMICAL NAME	COMMON NAME	CAS NO.	ACGIH TLV	OSHA PEL	OTHER LIMITS RECOMMENDED
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If the code stamped into the white rectangle on the top or bottom of the box begins with "L or P", the product contains:

Tetrasodium pyrophosphate	Sodium pyrophosphate	7722-88-5	5 mg/m <sup>3</sup>		
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SECTION III -- PHYSICAL/CHEMICAL CHARACTERISTICS

<u>BOILING POINT (°F)</u> N.A.	<u>SPECIFIC GRAVITY (H<sub>2</sub>O = 1)</u> Bulk density ~ 0.4 g/cc
<u>VAPOR PRESSURE (MM HG)</u> N.A.	<u>PERCENT VOLATILE BY VOLUME (%)</u> N.A.
<u>VAPOR DENSITY (AIR = 1)</u> N.A.	<u>EVAPORATION RATE (nBuOAc = 1)</u> N.A.
<u>SOLUBILITY IN WATER</u> Appreciable	<u>APPEARANCE AND ODOR</u> White granular powder. Product with or without perfume.

SECTION IV -- FLAMMABILITY AND REACTIVITY DATA

<u>FLASH POINT (METHOD USED)</u> N.A.	<u>EXPLOSIVE LIMITS</u> LEL N.A. UEL N.A.
<u>EXTINGUISHING MEDIA</u> Water, CO <sub>2</sub> , or dry chemical.	
<u>SPECIAL FIRE FIGHTING PROCEDURES</u> None.	
<u>UNUSUAL FIRE HAZARDS</u> None.	
<u>STABILITY</u> Stable.	<u>CONDITIONS TO AVOID</u> None known.
<u>INCOMPATIBILITY (Materials to avoid)</u> None known.	
<u>HAZARDOUS DECOMPOSITION/BY PRODUCTS</u> None known.	
<u>HAZARDOUS POLYMERIZATION</u> Will not occur.	<u>CONDITIONS TO AVOID</u> None known.

SECTION V - HEALTH AND SAFETY DATA

HEALTH EFFECTS (ACUTE AND CHRONIC)

Inhalation: Heavy or prolonged exposure to dust may cause transient respiratory tract irritation.  
Eye: May cause mild transient irritation.  
Ingestion: May cause transient gastrointestinal irritation.

SIGNS AND SYMPTOMS OF EXPOSURE

Inhalation: May cause coughing, sore throat, wheezing or transitory shortness of breath.  
Eye contact: May cause stinging, tearing, itching, swelling, and/or redness.  
Ingestion: May result in nausea, vomiting, and/or diarrhea.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Leave dusty area.  
Eye contact: Flush with water for 10 to 15 minutes.  
Ingestion: Drink 1 or 2 glasses of water.  
If symptoms persist or reoccur, seek medical attention.

OTHER

Consumer product package has no caution statement.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

No unusual precautions necessary.  
Avoid contact of cartons with moisture to avoid dispensing problems.

OTHER PRECAUTIONS

None.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Collect and place in suitable container and dispose as dry scrap, or flush with water down acceptable sewer (contains biodegradable surfactants).  
Prevent large spills from reaching a waterway.  
Prevent heavy exposure to dust with NIOSH approved dust mask.

WASTE DISPOSAL METHOD

Disposal is to be performed in compliance with all regulations.  
Small or household quantities may be disposed of in refuse or in sewer.  
Larger quantities of contaminated or waste material may be disposed of in municipal landfill where allowed by law.

SECTION VII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify Type)

None required with normal use.

VENTILATION

LOCAL EXHAUST None required with normal use.

MECHANICAL (General) Normal/general dilution ventilation is acceptable.

OTHER None.

EYE PROTECTION

None required with normal use.  
With dusty conditions, or if a splash is likely, chemical goggles may be needed.

PROTECTIVE GLOVES

None required with normal use.  
Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

OTHER PROTECTIVE EQUIPMENT

None necessary under normal use.

\* N.A. - NOT APPLICABLE

The submission of this MSDS may be required by law but this is not an assertion that this substance is hazardous when used in accordance with proper safety practices and normal handling procedures.