

----- MATERIAL SAFETY DATA SHEET -----

Proctor & Gamble

CASCADE POWDER AUTOMATIC DISHWASHING
DETERGENT (PINE JP, AND LEMON JL)

MANUFACTURER: PROCTOR & GAMBLE
LAUNDRY & CLEANING PRODUCTS DIVISION
IVORYDALE TECHNICAL CENTER
5299 SPRING GROVE AVENUE
CINCINNATI, OH 45217-1087
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----- SECTION V - HEALTH AND SAFETY DATA -----

HEALTH HAZARDS (Acute and Chronic):
 INHALATION: Inhalation of dust may cause mild, transient irritation.
 INGESTIONS: Ingestion may cause vomiting and transient, moderate gastrointestinal irritation.
 EYE CONTACT: May cause moderate, transient irritation.
 SKIN: May cause moderate, transient irritation, including dryness.
 EMERGENCY AND FIRST AID PROCEDURES:
 INHALATION: Leave dusty area.
 INGESTION: Give a large glassful of water or milk.
 EYE CONTACT: Flush thoroughly with water for 15 minutes.
 SKIN: Rinse skin thoroughly with water.
 OTHER: Label caution statements.
 FRONT LABEL: "CAUTION: Harmful if swallowed. Eye Irritant."
 BACK LABEL: "CAUTION: If swallowed, give a glassful of water or milk. Call a physician. In case of eye contact, flush with water. KEEP OUT OF REACH OF CHILDREN."

----- SECTION I -----

EMERGENCY TELEPHONE NUMBER: 24 hr. P&G Operator 1-800-844-2544 or call Local Poison Control Center
 IDENTITY: Cascade Powder Automatic Dishwashing Detergent (Pine JP, and Lemon JL)
 INGREDIENTS/CHEMICAL NAME: Ingredients: Water softeners (complex sodium phosphates and sodium carbonate), cleaning agent (chlorine bleach), water spot prevention agents (nonionic surfactants), dishwasher and china protection agent (sodium silicate), processing aid (sodium sulfate), and perfume.

----- SECTION II - HAZARDOUS INGREDIENTS/
IDENTITY INFORMATION -----

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

CHEMICAL NAME	COMMON	ACGIH-	OSHA	Other Limits
CAS. NO.	NAME	TLV	PEL	Recommended

Under normal consumer use, this product would not constitute a hazardous product under OSHA Hazard Communication. With increased exposure (compared with consumer use) this mixture, when tested as a whole, is considered an eye irritant within the meaning of the OSHA Hazard Communication Standard.
 See Section V - Health and Safety Data

----- SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS -----

BOILING POINT deg F: N.A.
 VAPOR PRESSURE (mm Hg): N.A.
 pH: 1% solution = 10.6 Reserve Alkalinity 8.4
 VAPOR DENSITY (Air=1): N.A.
 SPECIFIC GRAVITY (H2O=1): ~0.94
 PERCENT VOLATILE BY VOLUME (%): N/A
 EVAPORATION RATE (nBuOAc=1): N/A
 SOLUBILITY IN WATER: Nearly 100%
 APPEARANCE AND ODOR: White granular agglomerate. Product is perfumed.

----- SECTION IV - FLAMMABILITY AND REACTIVITY -----

FLASH POINT (Method Used): N.A.
 EXPLOSIVE LIMITS:
 LEL: N.A.
 UEL: N.A.
 EXTINGUISHING MEDIA: N.A.
 SPECIAL FIRE FIGHTING PROCEDURES: None.
 UNUSUAL FIRE HAZARDS: None
 STABILITY: Stable
 CONDITIONS TO AVOID: None known.
 INCOMPATIBILITY (Materials to Avoid): None known.
 HAZARDOUS DECOMPOSITION/BY PRODUCTS: None known
 HAZARDOUS POLYMERIZATION: Will not occur.
 CONDITIONS TO AVOID: None known.

----- SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE -----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: No unusual precautions necessary. Keep product dry to maintain free-flowing granules.
 OTHER PRECAUTIONS: None.
 STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 Minimize dust levels while collecting product (see "Inhalation" health effects). Dispose of according to local regulations.
 WASTE DISPOSAL METHOD: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL REGULATIONS. Household solutions may be disposed of in sewer. Dry product should be incinerated. Do not landfill.

----- SECTION VII - SPECIAL PROTECTION INFORMATION -----

RESPIRATORY PROTECTION (Specify Type): None required with normal use.
 VENTILATION:
 LOCAL EXHAUST: None required
 MECHANICAL (General): General dilution ventilation is acceptable.
 SPECIAL: None
 OTHER: None
 EYE PROTECTION: None required with normal use.
 PROTECTIVE GLOVES: Protective gloves (rubber, neoprene) should be used for any direct contact.
 OTHER PROTECTIVE EQUIPMENT: None required with normal use.
 *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.

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