



The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
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MATERIAL SAFETY DATA SHEET

MSDS #: FH/C/2007/BRRM-732PQG
Supersedes: FH/C/2006/BRRM-6SVR4T

Issue Date: May, 2007
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Identity: Liquid Hand Dishwashing Detergents **Finished Product**
Brands: P&G PROFESSIONAL DAWN
P&G Telephone Number: 1-800-332-7787 or call Local Poison Control Center or your physician.

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

Ingestions: Ingestion may cause transient gastrointestinal irritation.

Eye Contact: May cause mild, transient irritation.

Skin Contact: Transient irritation with prolonged exposure to concentrated material.

Inhalation: N/A

Signs and Symptoms of Exposure:

Ingestion: May result in nausea, vomiting, and/or diarrhea.

Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness.

Skin Contact: Prolonged contact with concentrated material may be drying or transiently irritating to skin.

Inhalation: N/A

Medical Conditions Generally Known to be Aggravated by Exposure: None

Potential Environmental Effects: (See Section 12 for more information)

Ingredients: Water (CAS# 7732-18-5), sodium alkyl sulfate (CAS# 68585-47-7), sodium alkyl ethoxylate sulfate (CAS# 68585-34-2), alkyl dimethyl amine oxide (CAS# 70592-80-2), undeceth-9 (CAS# 34398-01-1), SD alcohol (CAS# 64-17-5)

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

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition</u> <u>Range</u>	<u>LD50/LC50</u>
Ethyl alcohol	Ethanol	64-17-5	1-5%	7.06 g/kg (oral, rat)

SECTION 4 - FIRST AID INFORMATION**First Aid Procedures:**

Ingestion: Drink 1 or 2 glasses of water.

Eye Contact: Flush thoroughly with water for 15 minutes.

Skin Contact: If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes. If symptoms persist or recur, seek medical attention.

Inhalation: N/A

Note to Physician: (if applicable)

Other: Product packages have the following cautionary information on the front panel: KEEP OUT OF REACH OF CHILDREN. CAUTION: MAY CAUSE EYE IRRITATION. SEE SIDE/BACK PANEL.

Product packages have the following cautionary information on the side/back panel: EYE IRRITANT: Avoid eye contact. Eye contact may cause mild to moderate transient eye irritation. If eye irritation occurs, flush with water for 15 minutes. If irritation persists seek medical attention. KEEP OUT OF REACH OF CHILDREN.

SECTION 5 - FIRE HAZARD INFORMATION

Flash Point (Method Used): 115-135°F (46.1-57.2°C) Pensky-Martens (Closed cup). This is an aqueous solution (>50% water) that contains less than 24% by volume of alcohol and does not sustain combustion.

Flammable Properties:

Upper Flammable Limit:

Lower Flammable Limit:

Explosive Limits: UEL: N/A LEL: N/A

Auto-ignition Temperature: N/A

Hazardous Combustion Products: N/A

Explosion Data (Sensitivity to Mechanical Impact): N/A

Explosion Data (Sensitivity to Static Discharge): N/A

Extinguishing Media:

Suitable: CO₂, water or dry chemical.

Unsuitable: N/K

Protection of Firefighters:

Specific Hazards Arising from the Material: None

Protective Equipment and Precautions for Firefighters: No unusual precautions necessary.

SECTION 6 - ENVIRONMENTAL INFORMATION

Personal Precautions: None

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE /PROVINCIAL AND LOCAL REGULATIONS. Solutions of the detergents may be allowed to be flushed down sewer -- First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

Methods for Containment: Sorbents may be used. Read "Waste Disposal Method" below for further information.

Methods for Cleanup: Prevent spills from reaching a waterway.

Other Information: (if applicable)

Precautions To Be Taken in Handling: No unusual precautions necessary.
Precautions To Be Taken in Storage: No unusual precautions necessary.

Exposure Guidelines: Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm
OSHA Z-1 PEL 1000 ppm

Engineering Controls:

Personal Protective Equipment (PPE):

Eye/Face Protection: None required with normal consumer use.

Industrial Setting: For splash protection, use chemical goggles. Eye Wash fountain is desirable.

Skin Protection: None required with normal use.

Industrial Setting: Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

Respiratory Protection: None required with normal use.

Appearance (color, physical form, shape):
Blue or Yellow perfumed liquids.

Flash Point (Method Used): 115-135°F (46.1-57.2°C) Pinsky-Martens (Closed cup). This is an aqueous solution (>50% water) that contains less than 24% by volume of alcohol and does not sustain combustion.

Odor: Perfumed

Reserve Alkalinity: N/A

Odor Threshold: N/A

Solubility in Water: Complete

Physical State: Liquid

Decomposition Temperature: N/K

Vapor Pressure (mm Hg): N/A

Evaporation Rate (nBuOAc=1): N/K

Vapor Density (Air=1): N/A

Specific Gravity/Density: ca. 1

Boiling Point: N/K

Melting/Freezing Point: ~ 30 °F (-1.1°C)

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

pH (10% solution): 8-9.2

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

Chemical Stability: Stable

Conditions to Avoid: None Known

Incompatible Materials: None Known

Hazardous Decomposition Products: None

Possibility of Hazardous Reactions: None

Liquid hand dishwashing detergents have a relatively low order of toxicity. They may be irritating, but they are not expected to be corrosive. They are expected to be emetic.

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished product is not carcinogenic.

NTP: No

IARC: No

Based on ecotoxicity and fate data for the individual ingredients in this specific formulation, and for related consumer household cleaning products formulations, this product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment at relevant environmental concentrations. The surfactant(s) used in the formulation biodegrade rapidly and do not accumulate in the environment. This product is intended for dispersive use and should not be disposed of directly into the environment.

Waste Disposal Method: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE /PROVINCIAL AND LOCAL REGULATIONS. The product waste is not considered RCRA hazardous since it is an aqueous solution (>50% water) that contains less than 24% by volume of alcohol.

Non-Household Setting (US Federal): Solutions of diluted detergent in the course of use, may be allowed to be flushed down sewer. First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

Non-Household Setting (California): No

Ground Transport (US DOT): Finished product package not regulated.

Air Transport (IATA): Finished product package not regulated.

Marine/Water Transport (IMDG): Finished product package not regulated.

United States

All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

SARA 313/302/304/311/312 chemicals: None

California: This product has been evaluated and does not require warning labeling under California Proposition 65.

California Registration Number: Not Applicable

State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists

Ingredient	CAS #	Level	State						CERCLA RQ
			CT	IL	IN	KY	LA	MA	
Ethanol	64-17-5	1-5%	MN	NJ	NC	PA	RI		100 lbs

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health: 1	4=EXTREME
	Flammability: 1	3=HIGH
	Reactivity: 0	2=MODERATE
		1=SLIGHT
		0=NOT SIGNIFICANT

*N/A. - Not Applicable

*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.