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

MATERIAL SAFETY DATA SHEET

MSDS #: FH/C/2006/BRRM-6SVR4T
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Issue Date: August 29, 2006
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SECTION I - CHEMICAL PRODUCT

Identity: **Liquid Hand Dishwashing Detergents**

Finished, Packaged Product

Brands:

P&G PROFESSIONAL JOY

P&G Telephone Number:

P&G PROFESSIONAL JOY 1-800-332-7787

or call Local Poison Control Center or your physician

SECTION II - COMPOSITION AND INGREDIENTS

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.

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

SECTION III - HAZARDS IDENTIFICATION

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

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

SECTION IV - 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

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 V - FIRE FIGHTING INFORMATION

Flammable Properties: Although this product has a flashpoint below 200°F (closed cup), it is an aqueous solution (>50% water) that does **not** sustain combustion.

Extinguishing Media: CO₂, water or dry chemical.

Protection of Firefighters:

Specific Fire Hazards Arising from the Material: None

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

SECTION VI - ACCIDENTAL RELEASE MEASURES

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.

Steps To Be Taken in Case Material is Released or Spilled: Prevent spills from reaching a waterway. Sorbents may be used. Read "Waste Disposal Method" below for further information.

SECTION VII - HANDLING AND STORAGE**Precautions To Be Taken in Handling:** No unusual precautions necessary.**Precautions To Be Taken in Storage:** No unusual precautions necessary.**Other Precautions:** None known**SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION****Exposure Guidelines:** Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm
OSHA Z-1 PEL 1000 ppm**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 (Specify Type):** None required with normal use.**Ventilation Local Exhaust:** None required with normal consumer use. *Special:* None*Mechanical (General):* Normal/general dilution ventilation is acceptable. *Other:* None**Other Protective Equipment:** None required with normal use.**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES****Boiling Point °F:** Not known**Specific Gravity (H₂O=1)/Density:** ca. 1**Vapor Pressure (mm Hg):** N/A**Physical State:** Liquid**Vapor Density (Air=1):** N/A**Melting/Freezing Point:** ~ 30 °F (-1.1°C)**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.**pH (10% solution):** 8-9.2**Solubility in Water:** Completely**Reserve Alkalinity:** N/A**Partition Coefficient (n-octanol/water):** N/A**Explosive Limits: LEL:** N/A **UEL:** N/A**Appearance and Odor:** Blue or Yellow liquids. All products are perfumed.**Odor Threshold:** N/A**SECTION X - STABILITY AND REACTIVITY****Chemical Stability:** Stable**Possible Hazardous Reactions/Conditions:** None known**Conditions to Avoid:** None**Materials to Avoid:** None**Hazardous Decomposition Products:** None known**Other Recommendations:** None

