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Procter & Gamble
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MATERIAL SAFETY DATA SHEET

Issue Date: 2/01
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SECTION I - CHEMICAL PRODUCT

Identity: **Liquid Detergent**

Brands **JOY Manual Pot and Pan Detergent (Professional Line)**

Hazard Rating: 1

Health: 1
Flammability: 1
Reactivity:

4=EXTREME
3=HIGH
2= MODERATE
1=SLIGHT

Emergency Telephone Number: 1-800-332-7787 or call Local Poison Control Center

SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Cleaning and sudsing agents (anionic and nonionic surfactants), dispensing aid (ethyl alcohol), water, stabilizing agents, colorant and perfume.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

Chemical Name	Common Name	CAS No.	Recommended Limits	Composition Range	LD50/LC50
Ethyl alcohol	Ethanol	64-17-5	ACGIH TLV: 1880 mg/m^3	5-10%	N.A.

SECTION III - HAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

Ingestion: Ingestion may cause transient gastrointestinal irritation.

Eye Contact: May cause mild, transient irritation.

Skin: Transient irritation with prolonged exposure to concentrated material.

Signs and Symptoms of Exposure:

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

Eye Contact: May cause stinging, tearing, vomiting, and/or diarrhea.

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

SECTION IV - FIRST AID INFORMATION

Emergency and First Aid Procedures:

Ingestion:	Drink 1 or 2 two large glasses of water.
Eye Contact:	Flush thoroughly with large amounts of water for 15 minutes
Skin:	If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes, It symptoms persist or recur, seek medical attention.

Other:.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): 105-130°F Pensky-Martens (cc) **Explosive Limits**: *LEL:* N/A *UEL*: N/A

Extinguishing Media: CO_2, water or dry chemical

Special Fire Fighting Procedures: None. Although this product has a flash point below 200°F (closed cup), it is an aqueous solution containing ethyl alcohol, which does not sustain combustion.

Unusual Fire Hazards: None

Stability *Unstable*: *Conditions to Avoid*: None known

Stable: X

Incompatibility (Materials to Avoid): None known

Hazardous Decomposition/By Products: None known

Hazardous Polymerization: *May Occur*: *Conditions to Avoid*: None known

Will Not Occur: X

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Do not landfill. Small quantities may be disposed of via sewer. Recycling is recommended for undiluted scrap product.

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 and Storing: No unusual precautions necessary.

Other Precautions: Non known.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection (Specify Type): None required with normal use.

Ventilation *Local Exhaust*: None required with normal use. *Special*: None

Mechanical (General): Acceptable. *Other*: None

Eye Protection: None required with normal use. If splash is likely, goggles may be needed.

Protective Gloves: None required with normal use. Protective gloves should be used for prolonged contact with undiluted product.

Other Protective Equipment: None required with normal use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point °F: Not known

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Odor Threshold: N/A

Coefficient of Water/Oil Distribution: N/A

Scooped Density: N/A

Appearance and Odor Yellow liquid

Product is perfumed.

Specific Gravity (H_2O=1): ~1

Percent Volatile by Volume (%): ~60-65%

Evaporation Rate (nBuOAc=1): Unknown

Freezing Point: ~30°F

pH (1% solution): ~8

Solubility in Water: Completely

Reserve Alkalinity: N/A

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: None known

Conditions to Avoid: None

Materials to Avoid: None

Hazardous Decomposition Products: None known

Other Recommendations: None

SECTION XI - TOXICOLOGICAL INFORMATION

LD50 (rats oral): approximately 12 mL/kg

ED50: approximately 2.3 mL/kg

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.

SECTION XII - ECOLOGICAL INFORMATION

All surfactants are readily biodegradable. This product is safe for septic tanks.

SECTION XIII - DISPOSAL CONSIDERATIONS
Waste Disposal Method: Do not landfill. Small quantities, including solutions of diluted detergents, may be disposed of via sewer or in the trash. Recycling is recommended for undiluted scrap product. DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION XIV - TRANSPORT INFORMATION
DOT Classification: Not DOT regulated in packaging of less than 119 gallons. When shipped in bulk, classified as compounds, cleaning liquid Class 3 (NA 1993)

SECTION XV - ADDITIONAL REGULATORY INFORMATION
All components are listed on the US TSCA Inventory. No components are affected by Significant New Use Rules (SNURs) under TSCA §5. . No components of Joy are subject to California Proposition 65. All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified with Hazard Criteria of the Canadian Control Products Regulation (CPR) and this MSDS contains all information required by the Canadian Products Regulation.

SECTION XVI - OTHER INFORMATION
*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. The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.