



Page 1 of 4
 Procter & Gamble
 CPG TN 6
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 Cincinnati, OH 45202

MATERIAL SAFETY DATA SHEET

Supersedes: N/A

Issue Date: 2/01
 Issue Date: N/A

Identity: Liquid Detergent		
Brands JOY Manual Pot and Pan Detergent (Professional Line)		
Hazard Rating: 1	Health: 1	4=EXTREME
	Flammability: 1	3=HIGH
	Reactivity:	2= MODERATE
		1=SLIGHT
Emergency Telephone Number: 1-800-332-7787 or call Local Poison Control Center		

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

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.

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.

Boiling Point °F: Not known

Specific Gravity (H₂O=1): ~1

Vapor Pressure (mm Hg): N/A

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

Vapor Density (Air=1): N/A

Evaporation Rate (nBuOAc=1): Unknown

Odor Threshold: N/A

Freezing Point: ~30°F

Coefficient of Water/Oil Distribution: N/A

pH (1% solution): ~8

Scooped Density: N/A

Solubility in Water: Completely

Appearance and Odor: Yellow liquid

Reserve Alkalinity: N/A

Product is perfumed.

Possible Hazardous Reactions/Conditions: None known

Conditions to Avoid: None

Materials to Avoid: None

Hazardous Decomposition Products: None known

Other Recommendations: None

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.

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

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.**

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)

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.

*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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