



MATERIAL SAFETY DATA SHEET

Supersedes: N/A

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

SECTION I - CHEMICAL PRODUCT		
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		

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 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

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.

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.

