MATERIAL SAFETY DATA SHEET

Emergency Telephone Number: 24 hr. P&G Operator 1-800-456-1569 or call Local Poison Control Center

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

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS. No.</th>
<th>ACGIH-TLV</th>
<th>OSHA PEL</th>
<th>Other Limits</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>Ethanol</td>
<td>64-17-5</td>
<td>1900 mg/m^3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See Section V - Health and Safety Data

SECTION III - PHYSICAL-CHEMICAL CHARACTERISTICS

Boiling Point °F: Not known
Vapor Pressure (mm Hg): Not known
Vapor Density (Air=1): Not known
Solubility in Water: Completely soluble.
Specific Gravity (H2O=1): 1.08
Percent Volatile by Volume (%): ~ 65%
Evaporation Rate (nBuOAce=1): Not known
Appearance and Odor: Clear yellow liquid.
Product is perfumed.

SECTION IV - FLAMMABILITY AND REACTIVITY

Flash Point (Method Used): 120°F. Pensky-Martens
Explosive Limits: LEL: N.A. UEL: N.A.

Closed cup
Extinguishing Media: CO2, 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
JOY MSDS - continued.

SECTION V. HEALTH AND SAFETY DATA

Health Hazards (Acute and Chronic):
- Ingestions: 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, itching, swelling, and/or redness.
- Skin: Prolonged contact with concentrated material may be drying or transiently irritating to skin.

Emergency and First Aid Procedures:
- Ingestion: Drink 1 or 2 glasses of water.
- Eye Contact: Flush thoroughly with water for 10 to 15 minutes.
- Skin: If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes. If symptoms persist or recur, seek medical attention.

Other: Consumer product package has no caution statement.

SECTION VI. PRECAUTIONS FOR SAFE HANDLING AND USE

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

Other Precautions: None known.

Steps To Be Taken in Case Material is Released or Spilled: Prevent spills from reaching a waterway. Sorbents may be used.

Waste Disposal Method: Disposal is to be performed in compliance with all regulations.

Solutions of Joy, diluted 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.

SECTION VII. SPECIAL PROTECTION INFORMATION

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

Ventilation:
- Local Exhaust: None required with normal use.
- Mechanical (General): Normal/general dilution ventilation is acceptable.

Eye Protection: None required with normal use.

Industrial Setting: If a splash is likely, chemical goggles may be needed.

Protective Gloves: None required with normal use. Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

Other Protective Equipment: None required with normal use.

*NA. - Not Applicable
*NK. - 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.

joymsd2
KEB 8/95