



## MATERIAL SAFETY DATA SHEET

MSDS: FH/C/2004/TWTG-677TFH  
Supersedes: N/A

Issue Date: November 3, 2005  
Issue Date: N/A

### SECTION I - CHEMICAL PRODUCT

Identity: **Liquid Detergent**

Brands: **DAWN Manual Pot and Pan Detergent (Professional Line)**

Hazard Rating: Health: 1 4=EXTREME  
Flammability: 1 3=HIGH  
Reactivity: 0 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: Water (7732-18-5), Sodium Alkyl Sulfonate (68585-47-7), Sodium Alkyl Ethoxylate Sulfonate (68585-34-2), Amine Oxide (70592-80-2), Ethyl Alcohol (64-17-5), Sodium Lauryl Benzene Sulfonate (25155-30-0), 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 <sup>3</sup>	5-10%	N.A.

### SECTION III - HAZARDS IDENTIFICATION

#### Health Hazards (Acute and Chronic):

Ingestion: Ingestion may cause transient gastrointestinal irritation. with nausea, vomiting and/or diarrhea.  
Eye Contact: May cause mild, transient irritation with stinging, itching, swelling and tearing.  
Skin: Prolonged contact with undiluted product may be drying or cause mild irritation.

### SECTION IV - FIRST AID INFORMATION

#### Emergency and First Aid Procedures:

Ingestion: Drink 1 or 2 two large glasses of water.  
Eye Contact: Flush with large amounts of water for 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:** Product package contains the following warnings: 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.

SECTION V - FIRE FIGHTING INFORMATION			
<b>Flash Point (Method Used):</b> 115-135°F Pinsky-Martens (cc)	<b>Explosive Limits:</b>	<i>LEL:</i> N/A	<i>UEL:</i> N/A
<b>Extinguishing Media:</b> CO <sub>2</sub> , water or dry chemical			
<b>Special Fire Fighting Procedures:</b> 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.			
<b>Unusual Fire Hazards:</b> None			
<b>Stability:</b> Stable			
<b>Incompatibility (Materials to avoid):</b> None			

SECTION VI - ACCIDENTAL RELEASE MEASURES
<b>Personal Precautions:</b> None
<b>Environmental Precautions:</b> 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.
<b>Steps To Be Taken in Case Large Quantities of Material are Released or Spilled:</b> Prevent large spills from reaching a waterway. Sorbents may be used. Read "Waste Disposal Method" below for further information.

SECTION VII - HANDLING AND STORAGE
<b>Precautions To Be Taken in Handling and Storing:</b> No unusual precautions necessary.
<b>Other Precautions:</b> None known.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION
<b>Respiratory Protection (Specify Type):</b> None required with normal use.
<b>Ventilation</b> General
<b>Eye Protection:</b> None required with normal use. If splash is likely, goggles may be needed.
<i>Manufacturing:</i> For splash protection, use chemical goggles. Eye wash facilities desirable.
<b>Protective Gloves:</b> None required with normal use. Protective gloves should be used for prolonged contact with undiluted product.
<b>Other Protective Equipment:</b> None required with normal use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES	
<b>Boiling Point °F:</b> Not known	<b>Specific Gravity (H<sub>2</sub>O=1):</b> ~1
<b>Vapor Pressure (mm Hg):</b> N/A	<b>Percent Volatile by Volume (%):</b> ~60-65%
<b>Vapor Density (Air=1):</b> N/A	<b>Evaporation Rate (nBuOAc=1):</b> Unknown
<b>Appearance and Odor:</b> Blue liquid. Product is perfumed	<b>Freezing Point:</b> ~30°F
<b>Coefficient of Water/Oil Distribution:</b> N/A	<b>pH (1% solution):</b> ~8
	<b>Solubility in Water:</b> Completely

**SECTION X - STABILITY AND REACTIVITY**

**Possible Hazardous Reactions/Conditions/By Products:** None known

**Conditions to Avoid:** None

**Materials to Avoid:** None

**Hazardous Decomposition Products:** None known

**Other Recommendations:** None

**Stability:** *Stable*

**Hazardous Polymerization:** *Will Not Occur*

**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:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. 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.

**SECTION XIV - TRANSPORT INFORMATION**

**DOT Classification:** Not DOT regulated in packages as sold. 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.

No components of Dawn 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.