



## MATERIAL SAFETY DATA SHEET

MSDS: FH/F/2002/AKAL-5FPP9X(S.4)  
 Supersedes: FH/F/2002/AKAL-5FPP9X(S.3)

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### SECTION I - CHEMICAL PRODUCT

Identity: **LIQUID FABRIC SOFTENER**

Brands: **LIQUID DOWNY ADVANCED – ALL VARIATIONS**

Hazard Rating:	Health:	1	4 = EXTREME
	Flammability:	1	3 = HIGH
	Reactivity:	0	2 = MODERATE
			1 = SLIGHT

Emergency Telephone Number: 24hr P&G Operator - 1-800-688-SOFT (7638) or call Local Poison Control Center

### SECTION II - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Contains biodegradable fabric softening agents (cationic).

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

<u>Chemical Name</u>	<u>CAS No.</u>	<u>ACGIH-TLV</u>	<u>OSHA PEL</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Ethanol	64-17-5	1000 ppm 1990 mg/m3	1000 ppm 1990 mg/m3	1-5%	N/A
Hexylene glycol	107-41-5	25 ppm 125 mg/m3	N/A	1-5%	N/A

### SECTION III - HAZARDS IDENTIFICATION

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

Ingestion: Mild gastrointestinal irritation.  
 Eye Contact: Slightly irritating  
 Skin Contact: Slightly irritating  
 Inhalation: None

**Signs and Symptoms of Exposure:**

Ingestion: Oral ingestion may result in gastrointestinal irritation with nausea, vomiting, and/or diarrhea.  
 Eye Contact: May result in transient, slight irritation.  
 Skin Contact: May result in transient, slight irritation.  
 Inhalation: None

**SECTION IV - FIRST AID INFORMATION****Emergency and First Aid Procedures:**

- Ingestion: Dilute stomach contents by drinking 1-2 glasses of water; treat symptomatically.  
 Eye Contact: Flush eyes with water.  
 Skin Contact: Rinse exposed skin. Remove contaminated clothing and launder before reuse.  
 Inhalation: None.

**Other:** Consumer product packages have a voluntary warning statement on the back label: "Do not use this product on children's sleepwear or garments labeled as flame resistant as it may reduce flame resistance."

**SECTION V - FIRE FIGHTING INFORMATION**

**Flash Point (Method Used):** >84C / >183F      **Explosive Limits:**      LEL:N.A.      UEL: N.A.  
 (Pensky-Martens Closed Cup, ASTM-D93)

**NOTE:** This mixture does not sustain combustion.  
 This mixture is an aqueous solution of alcohol (<24%)  
 with >50% water content.

**Extinguishing Media:** Use CO<sub>2</sub>, water, or dry chemical

**Special Fire Fighting Procedures:** Use water to keep fire exposed container cool.

**Unusual Fire Hazards:** None. Materials must be heated considerably for ignition to occur.

**Stability**      *Unstable:*      *Conditions to Avoid:* None  
                                  *Stable:* X

**Incompatibility (Materials to Avoid):** None

**Hazardous Decomposition/By Products:** None

**Hazardous Polymerization:**      *May Occur:*      *Conditions to Avoid:* None  
    *Will Not Occur:* X

**SECTION VI - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leaks, providing leak/spill has not ignited.

**Environmental Precautions:** Do not landfill Liquid Downy Advanced. Any spills are to be prevented from entering waterways. Sorbent may be used. **DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS.**

**Steps To Be Taken in Case Material is Released or Spilled:** Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak, providing leak/spill has not ignited. Any spills are to be prevented from entering storm sewers and waterways. Sorbents may be used.

**SECTION VII - HANDLING AND STORAGE**

**Precautions To Be Taken in Handling and Storing:** Store in cool, dry, well ventilated area

**Other Precautions:** None required

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION	
<b>Respiratory Protection (Specify Type):</b> No special precautions for casual exposure.	
<b>Ventilation</b>	<i>Local Exhaust:</i> Not necessary <span style="float: right;"><i>Special:</i> None</span>
	<i>Mechanical (General):</i> Acceptable <span style="float: right;"><i>Other:</i> None</span>
<b>Eye Protection:</b> None required for normal consumer use. <i>Industrial setting:</i> For splash protection use chemical goggles.	
<b>Protective Gloves:</b> None required for normal consumer use. <i>Industrial setting:</i> For prolonged contact, use rubber or neoprene gloves.	
<b>Other Protective Equipment:</b> None required for normal consumer use. <i>Industrial setting:</i> None required	

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES	
<b>Boiling Point °F:</b> N. A.	<b>Specific Gravity (H<sub>2</sub>O=1):</b> ~ 1.0
<b>Vapor Pressure (mm Hg):</b> N. A.	<b>Percent Volatile by Volume (%):</b> ~ 46.0
<b>Vapor Density (Air=1):</b> N. A.	<b>Evaporation Rate (nBuOAc=1):</b> N. K.
<b>Odor Threshold:</b> N. A.	<b>Freezing Point:</b> N. K.
<b>Coefficient of Water/Oil Distribution:</b> N. A.	<b>pH (1% solution):</b> ~2.8 - 3.5
<b>Scooped Density:</b> N. A.	<b>Solubility in Water:</b> Completely Soluble
<b>Appearance and Odor:</b> Colored liquid with scent	<b>Physical State:</b> Liquid

SECTION X - STABILITY AND REACTIVITY	
<b>Possible Hazardous Reactions/Conditions:</b> Avoid mixing with strong oxidizing agents.	
<b>Hazardous Polymerization:</b> Will not occur	
<b>Conditions to Avoid:</b> Avoid mixing with strong oxidizing agents.	
<b>Stability:</b> Stable	
<b>Materials to Avoid:</b> Strong oxidizing agents.	
<b>Hazardous Decomposition Products:</b> None	
<b>Other Recommendations:</b> None	

SECTION XI - TOXICOLOGICAL INFORMATION	
LD50 (rats oral): >5000mg/kg	

SECTION XII - ECOLOGICAL INFORMATION	
The product is intended for wide dispersive use and is compatible with the down-the-drain disposal route, including septic tanks and municipal wastewater treatment processes. The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment at relevant environmental concentrations. The softening agents used in the product are biodegradable.	

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Product as shipped is not considered to be hazardous waste when discarded. Large quantities can be disposed of by incineration. Do not landfill. Small Quantities can be flushed down sewer with excess water or dispose as liquid scrap. DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS.

**SECTION XIV - TRANSPORT INFORMATION**

**DOT Classification:** This material is not a hazardous material under DOT per 49 CFR 173.120(a)(3), 173.120(b)(3) and 173.150(e)(2).

**SECTION XV - ADDITIONAL REGULATORY INFORMATION**

CERCLA listed chemicals:

- Ethanol (CAS# 64-17-5); 100 lb reportable quantity.
- Methyl alcohol (CAS# 67-56-1); 5000 lb reportable quantity.
- Acetone (CAS# 67-64-1); 5000 lb reportable quantity.
- Acetaldehyde (CAS# 75-07-0); 1000 lb reportable quantity.
- Dimethyl sulfate (CAS# 77-78-1); 100 lb reportable quantity.
- Ammonium chloride (CAS# 12125-02-9); 5000 lb reportable quantity.
- Potassium hydroxide (CAS# 1310-58-3); 1000 lb reportable quantity.
- Sodium hydroxide (CAS# 1310-73-2); 1000 lb reportable quantity.
- Acetic acid (CAS# 64-19-7); 5000 lb reportable quantity.
- Phosphoric acid (CAS# 7664-38-2); 5000 lb reportable quantity.

All intentionally-added components of Liquid Downy Advanced Fabric Softener are listed on the U.S. TSCA Inventory. No components are subject to Significant New Use Rules (SNURs) under TSCA §5.

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified with the Hazard Criteria of the Canadian Control Products Regulation (CPR) and this MSDS contains all the information required by the Controlled Products Regulation.

Liquid Downy Advanced Fabric Softener is not subject to warning labeling under California Proposition 65.

**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.