

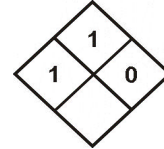
MATERIAL SAFETY DATA SHEET

PRODUCT ADCO LIQUID LAUNDRY DETERGENT



NFPA HAZARD RATINGS\*

Health	1	Slight health hazard
Fire	1	Slightly combustible
Reactivity	0	Nonreactive



SECTION 1: PRODUCT INFORMATION

Manufacturer: ADCO, Inc., 900 W. Main, Sedalia, MO 65301 (660) 826-3300  
 EMERGENCY TELEPHONE NUMBERS: CHEMTREC (800) 424-9300 24 HRS 7 DAYS A WEEK; ADCO (800) 821-7556 (8-5 M-F)  
 Intended Product Use: Laundry Detergent  
 Synonyms: None

SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name	%	CAS #	OSHA PEL	LD 50
Diethanolamine	1-5	111-42-2	3 ppm TWA	oral: 5700 mg/kg (rat)

SECTION 3: PHYSICAL DATA

Appearance: Clear, light yellow Boiling Point: Over 300°F (148.8°C)  
 Odor: Lemon - citrus Solubility in Water: Miscible  
 Specific Gravity (20° C): 1.051 Vapor Pressure (mm Hg): No data  
 pH (Straight): 8.8 Vapor Density: No data

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method)(°F): > 230 (PM) Upper Flammable Limit: No data  
 Lower Flammable Limit: No data  
 Extinguishing Media: Compatible with all types.  
 Special Fire Fighting Procedures: Avoid directing strong stream into product  
 Unusual Fire and Explosion Hazards: High heat may produce noxious decomposition vapors.

SECTION 5: REACTIVITY DATA

Stability: Stable Conditions to Avoid: High heat  
 Incompatibility (materials to avoid): Strong oxidizers  
 Hazardous Decomposition Products: Burning produces toxic, irritating fumes.  
 Hazardous Polymerization: Will not occur.

SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): Low  
 Effects of Overexposure: Acute: Causes drying and irritation in eyes or on prolonged contact with skin.  
 Chronic: None known.  
 Carcinogenicity: None of the ingredients of this mixture have been identified as a carcinogen or probable carcinogen by ACGIH, IARC, or OSHA.

\*Hazard ratings and other information are based on latest available information from tests on product or ingredients of mixtures. The data and evaluations are accurate to the best of ADCO's knowledge. No guarantee or liability is expressed or implied.

EXPOSURE LIMITS 3 ppm TWA (diethanolamine)	IRRITANCY OF PRODUCT Moderate eye; slight skin	SENSITIZATION TO PRODUCT None reported	CARCINOGENICITY No components are listed by ACGIH, IARC or OSHA
TERATOGENICITY No effects reported	REPRODUCTIVE TOXICITY No effects reported	MUTAGENICITY None reported	SYNERGISTIC PRODUCTS None reported

Based on known toxicity of components. No test data available on mixture.

## SECTION 7: PREVENTATIVE MEASURES

### SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required when used as directed with adequate ventilation.

Ventilation: Normal industrial ventilation is adequate.

Protective Gloves: Ordinarily not needed. Use chemically resistant gloves when contact is prolonged or frequent.

Eye Protection: Use goggles or face mask if splashing is likely.

Other protection equipment ordinarily not needed. Availability of eye washes and adequate ventilation in work areas recommended.

**STORAGE AND HANDLING:** Store in plastic containers and use plastic pump.

**SPILL OR LEAK PROCEDURES:** Small spills may be flushed to sewer with water. Larger spills - soak up on absorbent material and transfer to containers for disposal as nonhazardous waste.

**WASTE DISPOSAL METHOD:** Nonhazardous. Flush to sewer or dispose of material and container in nonhazardous municipal landfill in compliance with all local, state and federal regulations.

### RECOMMENDED PRECAUTIONARY LABELING:

#### **CAUTION:**

Splashing into eyes or prolonged or repeated contact with skin may cause irritation.

#### **FIRST AID:**

In case of contact, flush eyes with water 15 minutes; wash off of skin with soap and water. If swallowed, do NOT induce vomiting.

**KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.**

This product is intended for professional use only by trained personnel.

## SECTION 8: FIRST AID

Inhalation: No treatment necessary.

Eyes: Flush eyes for 15 minutes with water.

Skin: Wash off with soap and water.

Ingestion: Do NOT induce vomiting.

IF SYMPTOMS PERSIST, SEEK MEDICAL ASSISTANCE

## SECTION 9: SARA TITLE III

NOTE: This product does not contain any components which are under the reporting requirements of SARA Title III, Section 313.

## SECTION 10: PREPARATION DATE

This information is provided for guidance only based on information we have compiled. No guarantee of accuracy or completeness is expressed or implied.

ADCO RESEARCH DEPARTMENT

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Date: March 6, 2000

Replaces MSDS of: August 15, 1995