

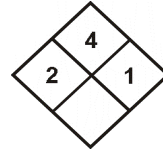
MATERIAL SAFETY DATA SHEET

PRODUCT FATTY ACID TEST KIT, SOLUTION #1



NFPA HAZARD RATINGS\*

Health	2	Moderate health hazard
Fire	4	Extremely flammable
Stability	1	Slight instability



SECTION 1: PRODUCT INFORMATION

Sold by: ADCO Cleaning Products LLC, 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: Testing fatty acid content of drycleaning solvent  
 Synonyms: None

SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name	%	CAS #	OSHA PEL	LD 50
Isopropyl alcohol	<90	67-63-0	400 ppm TWA	oral: 5.8 g/kg (rat) dermal: 13 g/kg (rabbit)

SECTION 3: PHYSICAL DATA

Appearance: Clear Boiling Point (°C): No data  
 Odor: Like alcohol Solubility in Water: Miscible  
 Specific Gravity (20° C): 0.818 Vapor Pressure (mm Hg): No data  
 pH (Straight): 9.6 Vapor Density: No data

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method)(°F): 60° (TCC) Upper Flammable Limit: No data  
 Lower Flammable Limit: No data  
 Extinguishing Media: Water fog, "Alcohol" foam, dry chemical, carbon dioxide  
 Special Fire Fighting Procedures: Cool fire exposed containers with water spray. Wear self-contained breathing aparatus.  
 Unusual Fire and Explosion Hazards: Vapors may form flammable or explosive mixture with air. Vapors can cause dizziness.

SECTION 5: REACTIVITY DATA

Stability: Stable Conditions to Avoid: Use or storage at high temperatures  
 Incompatibility (materials to avoid): Strong oxidizers; do not store in aluminum temperatures.  
 Hazardous Decomposition Products: Burning produces toxic fumes.  
 Hazardous Polymerization: Will not occur

SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): Low  
 Effects of Overexposure: Acute: Vapors may cause dizziness, nausea, headache, and irritation to eyes, nose, and lungs.  
Contact with eyes or skin may cause drying and irritation.  
 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 400 ppm TWA (isopropyl alcohol)	IRRITANCY OF PRODUCT Moderate eye and skin	SENSITIZATION TO PRODUCT None reported	CARCINOGENICITY No components are listed by ACGIH, IARC, or OSHA
TERATOGENICITY None effects reported	REPRODUCTIVE TOXICITY None 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.

When cleaning up large spills in confined areas, self-contained breathing apparatus is recommended.

Ventilation: Normal industrial ventilation is adequate. Use in spray booth or enclosure.

Local exhaust at work station recommended.

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 or lined metal containers. Use plastic or stainless steel drum pump.

Keep away from heat and open flames.

### SPILL OR LEAK PROCEDURES:

Avoid breathing vapors. Keep from sources of ignition. Soak up on absorbent material and shovel into containers for disposal.

### WASTE DISPOSAL METHOD:

Dispose of in manner that complies with all local, state, and federal regulations for combustible wastes.

### RECOMMENDED PRECAUTIONARY LABELING:

#### CAUTION:

Use with adequate ventilation. Avoid prolonged breathing of vapors. Keep away from heat and open flames. Avoid contact with skin and eyes.

#### FIRST AID:

In case of contact with eyes, flush 15 minutes with water. Wash off of skin. 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: Remove person overcome by vapors to fresh air.

Eyes: Flush eyes 15 minutes with water.

Skin: Wash off of skin with soap and water.

Ingestion: Do NOT induce vomiting.

IF SYMPTOMS PERSIST, SEEK MEDICAL ASSISTANCE

## SECTION 9: SARA TITLE III

NOTE: This product does contain some components which are under the reporting requirements of SARA Title III, Section 313. If you are required to report discharges using Form R, SARA Title III, Section 313, information is available on amounts of reportable components.

## 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

Prepared by:

*Julie D. Hirner*

Julie D. Hirner

Date: April 16, 2010

Replaces MSDS of:

November 7, 2008

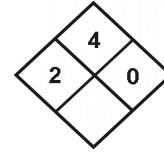
MATERIAL SAFETY DATA SHEET

PRODUCT FATTY ACID TEST KIT, SOLUTION #2



NFPA HAZARD RATINGS\*

Health	2	Moderate health hazard
Fire	4	Extremely flammable
Stability	0	Stable



SECTION 1: PRODUCT INFORMATION

Sold by: ADCO Cleaning Products LLC, 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: Testing fatty acid content of drycleaning solvent  
 Synonyms: None

SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name	%	CAS #	OSHA PEL	LD 50
Ethanol	<100	64-17-5	1000 ppm TWA	oral: 7.06 g/kg (rat)

SECTION 3: PHYSICAL DATA

Appearance: Clear liquid Boiling Point: 167°F  
 Odor: Like alcohol Solubility in Water: Miscible  
 Specific Gravity (20° C): 0.816 Vapor Pressure (mm Hg): No data  
 pH (Straight): 13.5-14 Vapor Density: No data

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method)(°F): <55° (TCC) Upper Flammable Limit: No data  
 Lower Flammable Limit: No data  
 Extinguishing Media: Water fog, "Alcohol" foam, dry chemical, carbon dioxide  
 Special Fire Fighting Procedures: Cool fire exposed containers with water spray. Wear self-contained breathing apparatus.  
 Unusual Fire and Explosion Hazards: Vapors may form flammable or explosive mixture with air. Vapors can cause dizziness.

SECTION 5: REACTIVITY DATA

Stability: Stable Conditions to Avoid: Use or storage at high temperatures  
 Incompatibility (materials to avoid): Strong oxidizers; do not store in aluminum temperatures.  
 Hazardous Decomposition Products: Burning produces toxic fumes.  
 Hazardous Polymerization: Will not occur

SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): Low  
 Effects of Overexposure: Acute: Vapors may cause dizziness, nausea, headache, and irritation to eyes, nose, and lungs.  
Contact with eyes or skin may cause drying and irritation.  
 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 1000 ppm TWA (ethanol)	IRRITANCY OF PRODUCT Moderate eye and skin	SENSITIZATION TO PRODUCT None reported	CARCINOGENICITY No components are listed by ACGIH, IARC, or OSHA
TERATOGENICITY None effects reported	REPRODUCTIVE TOXICITY None 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.

When cleaning up large spills in confined areas, self-contained breathing apparatus is recommended.

Ventilation: Normal industrial ventilation is adequate. Use in spray booth or enclosure.

Local exhaust at work station recommended.

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 or lined metal containers. Use plastic or stainless steel drum pump.

Keep away from heat and open flames.

### SPILL OR LEAK PROCEDURES:

Avoid breathing vapors. Keep from sources of ignition. Soak up on absorbent material and shovel into containers for disposal.

### WASTE DISPOSAL METHOD:

Dispose of in manner that complies with all local, state, and federal regulations for combustible wastes.

### RECOMMENDED PRECAUTIONARY LABELING:

#### CAUTION:

Use with adequate ventilation. Avoid prolonged breathing of vapors. Keep away from heat and open flames. Avoid contact with skin and eyes.

#### FIRST AID:

In case of contact with eyes, flush 15 minutes with water. Wash off of skin. 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: Remove person overcome by vapors to fresh air.

Eyes: Flush eyes 15 minutes with water.

Skin: Wash off of skin 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

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ADCO RESEARCH DEPARTMENT

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