

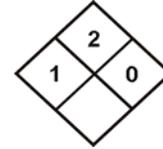
MATERIAL SAFETY DATA SHEET

PRODUCT _____ **GENERAL FORMULA** _____



NFPA HAZARD RATINGS*

Health	1	Slight health hazard
Fire	2	Moderately combustible
Stability	0	Stable



SECTION 1: PRODUCT INFORMATION

Manufacturer: 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: Spot and stain removal agent for use in drycleaning only.
 Synonyms: None

SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name	%	CAS #	OSHA PEL	LD 50
lactic acid	10-15	50-21-5	None established	oral: 3543 mg/kg (rat) dermal: 500 mg/kg (rabbit)
pentyl acetate	5-10	628-63-7	100 ppm TWA	oral: 6.5 g/kg (rat)
citric Acid (dilute solution)	<5	77-92-9	None established	oral: 975 mg/kg (rat)
ethylene glycol monobutyl ether (EB solvent)	10-20	111-76-2	25 ppm TWA	oral: 470 mg/kg (rat) dermal: 200 mg/kg (rabbit)
acetic acid	<5	64-19-7	10 ppm TWA	oral: 3.53 g/kg (rat)

SECTION 3: PHYSICAL DATA

Appearance: Clear liquid
 Odor: Sweet
 Specific Gravity (20° C): 1.12
 pH (20:80 in IPA/H2O Soln): 2.5-3.00

Boiling Point: 208°F
 Solubility in Water: Miscible
 Vapor Pressure (mm Hg): No data
 Vapor Density: Heavier than air

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method)(°F): 137 (PM)
 Upper Flammable Limit: No data
 Lower Flammable Limit: No data
 Extinguishing Media: Dry chemical, carbon dioxide, foam, water fog or other media for class B fires.
 Special Fire Fighting Procedures: Wear self-contained breathing apparatus. Cool fire exposed containers with water spray to keep from bursting.
 Unusual Fire and Explosion Hazards: Vapors may travel along floor and form combustible or explosive mixture with air. Combustion products may be toxic.

SECTION 5: REACTIVITY DATA

Stability: Stable
 Conditions to Avoid: Use or storage at temperatures above 120°F (48.8°C)

Incompatibility (materials to avoid): Strong oxidizers and alkali
 Hazardous Decomposition Products: Burning may produce toxic vapors.
 Hazardous Polymerization: Will not occur.

SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): Slight

Effects of Overexposure:
 Acute: Exposure to high concentrations of vapors may cause headaches, nausea, dizziness or nose, throat or eye irritation. Contact with eyes, prolonged or repeated contact with skin may cause irritation. Poisonous if swallowed.
 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 10 ppm TWA (acetic acid), 25 ppm TWA (EB solvent), 100 ppm TWA (pentyl acetate)	IRRITANCY OF PRODUCT Moderate eye and 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. When cleaning up large spills in confined area, self-contained breathing apparatus is recommended.

Ventilation: Normal industrial ventilation is adequate. Local exhaust at work station is 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 closed containers in a well ventilated area. Keep containers closed when not in use. Keep away from heat and open flames.

SPILL OR LEAK PROCEDURES: Avoid breathing vapors. Keep from sources of ignition. Soak up on absorbent material (sawdust, etc.) and shovel into containers for disposal.

WASTE DISPOSAL METHOD: Dispose of in manner that complies with all local, state and federal regulations for flammable wastes.

RECOMMENDED PRECAUTIONARY LABELING:

CAUTION:

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

FIRST AID:

Remove person overcome by vapors to fresh air. In case of contact with eyes, flush eyes for 15 minutes with water. Wash off of skin with soap and water. If swallowed, do NOT induce vomiting. Call physician immediately.

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 for 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.

ADC0 RESEARCH DEPARTMENT

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