

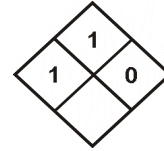
MATERIAL SAFETY DATA SHEET

PRODUCT ADCO RENEW



NFPA HAZARD RATINGS*

Health	1	Slight health hazard
Fire	1	Slightly 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: Fabric finishing agent for drycleaning
 Synonyms: "Sizing"

SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name	%	CAS #	OSHA PEL	LD 50
Tetrachloroethylene	<50	127-18-4	25 ppm TWA	oral: >5000 mg/kg (rat) dermal: >10,000 mg/kg (rabbit)

SECTION 3: PHYSICAL DATA

Appearance: Clear liquid Boiling Point: No data
 Odor: Sweet, like ether Solubility in Water: Insoluble
 Specific Gravity (20° C): 1.152 Vapor Pressure (mm Hg): No data
 pH: No data 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: Dry chemical, carbon dioxide, water fog
 Special Fire Fighting Procedures: Avoid directing strong water stream into product - may generate foam.
 Unusual Fire and Explosion Hazards: High heat may produce noxious fumes and toxic decomposition products. Wear self-contained breathing apparatus.

SECTION 5: REACTIVITY DATA

Stability: Stable below 300°F Conditions to Avoid: Exposure of vapors to high heat or open flames.
 Incompatibility (materials to avoid): Strong acids, oxidizers, aluminum, or other active metal.
 Hazardous Decomposition Products: Hydrogen chloride, phosgene, and other toxic fumes may be produced from decomposition of vapors at high temperatures.
 Hazardous Polymerization: Will not occur.

SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): Slightly toxic
 Effects of Overexposure: Acute: Exposure to high concentrations of vapors may cause dizziness, intoxication, myocardial irritability. Contact with eyes may cause irritation. Prolonged or repeated contact with skin may cause drying and irritation. Ingestion may cause nausea and/or diarrhea.
 Chronic: None reported on mixture. Test with laboratory animals on tetrachloroethylene component has caused liver and kidney toxic effects at high chronic exposure and increased incidence of liver tumors.
 Carcinogenicity: Tetrachloroethylene component rated IARC - "C" NTP - animal carcinogen on CA list.

*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 25 ppm TWA (tetrachloroethylene)	IRRITANCY OF PRODUCT No effects reported	SENSITIZATION TO PRODUCT None reported in tests on components	CARCINOGENICITY Tetrachloroethylene component rated IARC - "C" NTP - animal carcinogen on CA list
TERATOGENICITY No effects reported in tests on components	REPRODUCTIVE TOXICITY No effects reported in tests on components	MUTAGENICITY None reported in tests on components	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 closed containers in a well ventilated area. Aluminum equipment should not be used for storage or transfer. Keep containers closed when not in use.

SPILL OR LEAK PROCEDURES: Small spills - wipe up. Large spills - soak up on absorbent material and transfer into resealable containers for disposal.

WASTE DISPOSAL METHOD: Liquid product or absorbents containing this product must be disposed of in accordance with applicable local, state and federal regulations for chlorinated hydrocarbons.

RECOMMENDED PRECAUTIONARY LABELING:

CAUTION:

Use with adequate ventilation. Avoid contact with skin and eyes. Avoid prolonged breathing of vapors. Harmful if swallowed.

FIRST AID:

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

In California, add "Contains perchloroethylene known to the state of California to cause cancer."

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

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Date: April 19, 2010

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