

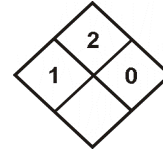
MATERIAL SAFETY DATA SHEET

PRODUCT X4



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: Cationic drycleaning detergent for perchloroethylene
 Synonyms: None

SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name	%	CAS #	OSHA PEL	LD 50
Ethyl alcohol	<2	64-17-5	1000 ppm TWA	oral: 7060 mg/kg (rat) dermal: 2374 mg/kg (rabbit)
Ethylene glycol monobutyl ether	<2	111-76-2	25 ppm TWA	oral: 470 mg/kg (rat) dermal: 200 mg/kg (rabbit)

SECTION 3: PHYSICAL DATA

Appearance: Yellow liquid Boiling Point: No data
 Odor: Fresh fragrance Solubility in Water: Miscible
 Specific Gravity (20° C): 0.99 Vapor Pressure (mm Hg): No data
 pH (6% in water): 5.5-6.5 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: Cool fire exposed containers with water spray.
 Unusual Fire and Explosion Hazards: Vapors may form combustible mixture with air.

SECTION 5: REACTIVITY DATA

Stability: Stable Conditions to Avoid: None
 Incompatibility (materials to avoid): Strong oxidizers
 Hazardous Decomposition Products: Burning produces toxic fumes
 Hazardous Polymerization: Will not occur

SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): Low
 Effects of Overexposure:
 Acute: Causes drying and irritation of eyes or on prolonged contact with skin.
 Chronic: None
 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 (ethyl alcohol)	IRRITANCY OF PRODUCT Moderate eye and slight 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 area, self-contained breathing apparatus is recommended.

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 of plastic pump recommended.

SPILL OR LEAK PROCEDURES: Small spills - flush to sewer with water. Large spills - soak up with absorbent material and shovel into containers for disposal as nonhazardous waste. Follow by flushing with water.

WASTE DISPOSAL METHOD: Nonhazardous. Flush to sewer or dispose of material and containers in nonhazardous 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 or burns.

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: No treatment necessary.

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

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

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