

MATERIAL SAFETY DATA SHEET

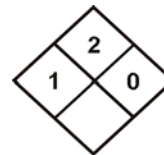
PRODUCT

TIGER



NFPA HAZARD RATINGS*

Table with 2 columns: Hazard Category and Rating. Rows: 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: Injection detergent for drycleaning
Synonyms: None

SECTION 2: HAZARDOUS INGREDIENTS

Table with 5 columns: Chemical Name, %, CAS #, OSHA PEL, LD 50. Rows: Tetrachloroethylene (40-60%), Ethyl alcohol (trace)

SECTION 3: PHYSICAL DATA

Appearance: Clear, yellow liquid
Odor: Slight sweet-etheral
Specific Gravity (20° C): 1.279
pH (20:80 in IPA/H2O Soln.): 4.9-5.9
Boiling Point: No data
Solubility in Water: Dispersible
Vapor Pressure (mm Hg): No data
Vapor Density: No data

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method)(°F): 124 (PM)
Upper Flammable Limit: No data
Lower Flammable Limit: No data
Extinguishing Media: Dry chemical, carbon dioxide, water fog, or other media for Class B fires.
Special Fire Fighting Procedures: Cool containers with water spray.
Unusual Fire and Explosion Hazards: Vapors may form combustible or explosive mixtures with air. Combustion products may be toxic.

SECTION 5: REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Use or storage above 110°F
Incompatibility (materials to avoid): Strong oxidizers, strong acids, or other metal.
Hazardous Decomposition Products: Hydrogen chloride, phosgene, and other toxic fumes may be produced on burning.
Hazardous Polymerization: Will not occur

SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): Slightly toxic
Effects of Overexposure: Acute: Exposure to high concentrations of vapor can 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 components has caused liver and kidney toxic effects at high chronic exposure incidents.
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) : 1000 ppm TWA (ethyl alcohol)	IRRITANCY OF PRODUCT Slight eye and skin	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 No effects 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.
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 pumps.
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 and chlorinated hydrocarbons.

RECOMMENDED PRECAUTIONARY LABELING:

CAUTION:

Use with adequate ventilation. Avoid contact with skin and eyes. Avoid prolonged breathing of vapors. Keep away from heat and open flames. 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 for 15 minutes with water.

Skin: Wash off of skin with soap and water.

Ingestion: If swallowed, 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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