

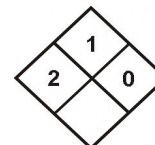
MATERIAL SAFETY DATA SHEET

PRODUCT DFB XTRA



NFPA HAZARD RATINGS*

Health	2	Moderate health hazard
Fire	1	Slightly combustible
Reactivity	0	Nonreactive



SECTION 1: PRODUCT INFORMATION

Manufacturer: ADCO, Inc., 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: Detergent for drycleaning garments
Synonyms: Drycleaning soap and sizing

SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name	%	CAS #	OSHA PEL	LD 50
Tetrachloroethylene	30-40	127-18-4	25 ppm TWA	oral: >5000 mg/kg (rat) dermal: >10000 mg/kg (rabbit)

SECTION 3: PHYSICAL DATA

Appearance: Clear yellow liquid
Odor: Slightly sweet-etheral
Specific Gravity (20° C): 1.117
pH (20:80 in IPA/H₂O Soln.): 5-6
Boiling Point: No data
Solubility in Water: Dispersible
Vapor Pressure (mm Hg): No data
Vapor Density: Heavier than air

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 stream of water into product - may produce 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
Conditions to Avoid: Exposure of vapors to high heat or open flame.
Incompatibility (materials to avoid): Strong acids, oxidizers, aluminum or other metal
Hazardous Decomposition Products: Hydrogen chloride, phosgene and other toxic fumes may be produced on burning vapors.
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 has caused liver and kidney toxic effects at high chronic exposure and increased incidence of liver tumors.
Carcinogenicity: Component listed by NTP as "R" rating, listed by ACGIH as "A3" rating and is listed under California proposition 65.

*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 Slight eyes and skin	SENSITIZATION TO PRODUCT None reported	CARCINOGENICITY Component listed by NTP as "R" rating, listed by ACGIH as "A3" rating and is listed on CA proposition 65
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.

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 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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Date: June 25, 2002

Replaces MSDS of: _____