

Company Address:
8125 Cobb Center Drive
Kennesaw, GA 30144

Product Information: 800-TECH-401
Customer Service: 800-645-5244

Emergency: (Chemtrec) 800-424-9300
Revision Date: March 13, 1995
Prepared by: Dr. Mo Tazi

Product Identification

AUDIO/VIDEO KLEEN

Product Code: ES882, ES882B

Product Ingredient Information	CAS#	Wt. % Range
Dichlorofluoroethane	1717-00-6	20.0-90.0
Perfluoro Compounds	86508-42-1	20.0-90.0
Carbon Dioxide	124-38-9	5.0-10.0

Note: For industrial use only.

Hazard Identification

Emergency Overview: Clear, colorless liquid with strong ethereal odor. This product is nonflammable. Liquid may irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product vapor may produce drowsiness and a headache.

Potential Health Effects:

Eyes: Liquid, aerosols and vapors of this product may be irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation.

Skin: Prolonged contact can cause skin irritation.

Ingestion: May be harmful if swallowed. Irritating to mouth, throat and stomach. May cause vomiting.

Inhalation: Can be harmful if inhaled. High concentrations of vapors in immediate area can displace oxygen and can cause dizziness.

First Aid

Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel if irritation develops or persists.

Skin: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persist. Wash clothing before reuse.

Ingestion: If swallowed, induce vomiting immediately as directed by medical personnel. Keep head below knees to minimize chance of aspirating material into the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Fire and Explosion Information

Flash Point: None (TCC)

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

Accidental Release Measures

Spills: Shut off leak if possible and safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

Handling and Storage Information

Avoid prolonged or repeated contact with eyes, skin, and clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor or mist. Do not reuse this container. Store in a cool dry place away from heat, sparks and flame. Keep container closed when not in use. Do not store in direct sunlight.

KEEP OUT OF REACH OF CHILDREN.

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. This material does not have established exposure limits. Wear safety glasses with side shields (or goggles). Wear rubber or other chemically resistant gloves when handling this material.

Exposure Information/Personnel Protection (All values listed are from the ACGIH Guide to Occupational Exposure Values - 1991).

Exposure Guidelines:

CHEMICAL NAME	ACGIH TWA	OSHA PEL	ACGIH STEL
Dichlorofluoroethane	NA	NA	500ppm *
Perfluoro Compounds C5-18	None	None	None **

*Allied Signal

** None = None Established

NFPA and HMIS Codes:

	NFPA	HMIS
Health	1	1
Flammability	0	0
Reactivity	0	0
Personal Protection	-	B

Toxicological Information (NIOSH RTECS 1985-1986)

Inhalation:
Dichlorofluoroethane ALC/rats 50,200ppm/6hr
LC50/rats 62,000ppm/4hr
Ingestion:
Dichlorofluoroethane LD50/rats >5mg/kg
Perfluoro Compounds NOT LIKELY A ROUTE

Carbon dioxide LCLo/human 28 pph/30min
Perfluoro Compounds LC 50 Fathead minnow > 1000 mg/l
Toxic pollutants= None (US CLEAN AIR ACT SECTION 307)

Skin

Dichlorofluoroethane LD50/rats 1,100mg/kg
Perfluoro Compounds No adverse health effects are expected- May cause skin irritation

Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

Physical and Chemical Properties

Physical State: Clear, colorless liquid
Odor: Ethereal Odor
pH: NA
Vapor Pressure: 10 psi@ 70⁰F
 (Air = 1)
Boiling Point: 90⁰F

Percent Volatile: 100%
Solubility in Water: Negligible
Specific Gravity: 1.40
 (Water =1)
Evaporation Rate: >1 (0.172 grams/minute)
 (Buryl acetate=1)
Viscosity: 0.4 centistokes

Stability and Chemical Properties

Stability: - This product is stable.

Incompatibility: Do not mix with powdered alkali and alkaline earth metals or strong oxidizing agents.

Products of Decomposition: Thermal decomposition may release carbon monoxide, carbon dioxide and incompletely burned hydrocarbons as well as hydrochloric and hydrofluoric acid vapor.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Finely divided active metals, alkali and alkaline earth metals

Disposal Considerations

Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.

Transportation Information

Proper Shipping Name	UN Number	Class	Sub. Risk	Pkg. Group	Hazard Label	Pkg. Instr.	Max. Quantity
Air: Aerosols non-flammable n.o.s.	UN 1950	2.2	NA	NA.	Non-flammable Gas	203	75 k.g; 150k.g.
Ground: Consumer Commodity ORM-D	NA	ORM-D	NA	NA	ORM-D Pkg. Auth.	173.306	

Regulatory Information**SECTION 313 SUPPLIER NOTIFICATION**

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

Chemical Name	CAS#	Wt. % Range
Dichlorofluoroethane	1717-00-6	20.0-90.0

This information should be included on all MSDSs copied and distributed for this material.

TOXIC SUBSTANCES CONTROL ACT (TSCA).

All ingredients of this product are listed on the TSCA Inventory.

Other Information

Product is a Level 1 aerosol. Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

Environmental Impact Information

Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

Environmental Impact Data
(percent by weight)

CFC	0.0%	VOC	0.0%
HCFC	50.0%	HFC	0.0%
Cl. Solv.	0.0%	ODP	0.05

REPORTING

US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is:
1-800-424-8802

For more information call:
1-800-645-5244

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.