

**SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION****Company Address:**

8125 Cobb Center Drive  
Kennesaw, GA 30152

**Product Information:** 800-TECH-401**Customer Service:** 800-645-5244**Emergency:** (Chemtree) 800-424-9300**Revision Date:** October 1, 2000**Product Identification****KONTACT RESTORER®**  
(Formerly Kontakt Restorer 2000)**Product Code:** ES1628, ES1628C**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	Wt. % Range
Dichlorofluoroethane	1717-00-6	92.0-97.0
Mineral Oil	8042-47-5	1.0-2.0
Carbon Dioxide	124-38-9	1.0-5.0

**SECTION 3: HAZARD IDENTIFICATION**

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

**Potential Health Effects:**

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

**Skin:** Contact causes skin irritation.

**Ingestion:** Harmful if swallowed. Irritating to mouth, throat and stomach. May cause vomiting.

**Inhalation:** Harmful if inhaled. High concentrations of vapors in immediate area can displace oxygen and can cause dizziness, unconsciousness, and even death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

**Pre-Existing Medical Conditions Aggravated by Exposure:** Heart, lung, skin, eye.

**SECTION 4: FIRST AID MEASURES**

**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 separately 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 not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**SECTION 5: FIRE FIGHTING MEASURES**

**Flash Point:** None to boiling (TCC)

**LEL/UEL:** 7.4/15.5 (Dichlorofluoroethane % by volume in air)

**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.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Large Spills:** Shut off leak if possible and safe to do so. Wear a self-contained breathing apparatus and appropriate personal protective equipment. 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.

**Small Spills:** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal.

**SECTION 7: HANDLING AND STORAGE**

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 or flames. Keep container closed when not in use. Do not store in direct sunlight.

**KEEP OUT OF REACH OF CHILDREN.**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines:**

CHEMICAL NAME	ACGIH TWA	OSHA PEL	OTHER
Dichlorofluoroethane	NA	NA	500 ppm (Atofina)
Mineral oil	NA	NA	

**Work/Hygienic Practices:** Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Wear safety glasses with side shields (or goggles) and rubber or other chemically resistant gloves when handling this material.

NFPA and HMIS Codes:	NFPA	HMIS
Health	1	1
Flammability	1	1
Reactivity	0	0
Personal Protection	-	B

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Physical State: Clear colorless liquidOdor: EtherealpH: NAVapor Pressure: 517 mmHg @ 70FVapor Density: >1

(Air = 1)

Boiling Point: 90F (Dichlorofluoroethane)Solubility in Water: NegligibleSpecific Gravity: (Water = 1) 1.23Evaporation Rate: >1

(Butyl acetate=1):

Viscosity: 1 (Approx.)

(Water = 1)

Percent Volatile: >95%**SECTION 10: STABILITY AND REACTIVITY**Stability: This product is stable. Conditions to Avoid: Do not spray near open flames, red hot surfaces or other sources of ignition.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, hydrogen chloride, hydrogen fluoride and incompletely burned hydrocarbons as well as hydrochloric and hydrofluoric acid vapor.Hazardous Polymerization: Will not occurConditions to Avoid: NA**SECTION 11: TOXICOLOGICAL INFORMATION:**Inhalation:

Dichlorofluoroethane\* LC50 rats 61,647 ppm/4hrs

Ingestion:

Dichlorofluoroethane\* LD50 rats &gt;5,000 mg/kg

Skin

Dichlorofluoroethane\* LD50 rats &gt;2,000 mg/kg

\*Information from manufacturer.

Cancer Information: No ingredients listed as human carcinogens by NTP or IARCReproductive effects: noneTeratogenic effects: noneMutagenic effects: none**SECTION 12: ECOLOGICAL INFORMATION**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	0.4%
HCFC	96.6%	HFC	0.0%
Cl. Solv.	0.0%	ODP	0.10

**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

**SECTION 13: DISPOSAL CONSIDERATIONS**

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

**SECTION 14: TRANSPORTATION INFORMATION**

Proper Shipping Name	UN Number	Hazard Class	Sub. Risk	Pkg. Group	Hazard Label	Pkg. Instr.	Max. Quantity
<u>Air:</u> Aerosols, nonflammable	UN1950	2.2	NA	NA	Nonflammable Gas	203	75kg;150kg
<u>Ground:</u> Consumer Commodity ORM-D	NA	ORM-D	NA	NA	ORM-D	Pkg. Auth.	173.306

**SECTION 15: 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 NameCAS#Wt. % Range

Dichlorofluoroethane

1717-00-6

92.0-97.0

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.WHMIS: Class A; Class D2B

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**SECTION 16: 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.

REFERENCES: 29 CFR 1910.1200 40 CFR 300-700 ANSI Z400.1-1998

NIOSH RTECS provided by CHEM-BANK by SILVERPLATTER

Guide to Occupational Exposure Values 1997

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.