



## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Contact Cleaner E.S.  
**RED LION PART NUMBER:** 74180  
**PRODUCT TYPE:** Aerosol Cleaner  
**CHEMICAL FAMILY:** N/A

**DATE PREPARED:** 11/9/01

**CHROMATE INDUSTRIAL CORPORATION**  
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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	OSHA PEL	ACGIH TLV	STEL	CAS #
1,1-Dichloro-1-fluoroethane	93	Not Established	Not Established	N/D	1717-00-6
Methanol	4	200 ppm (skin)	200 ppm (skin)	250 ppm (skin)	67-56-1
Carbon Dioxide	3	5000 ppm	5000 ppm	N/D	124-38-9

\* An asterisk (\*) indicates the toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

## 3. HAZARDS IDENTIFICATION

**PRIMARY ROUTES OF ENTRY:** Inhalation, Skin, Eyes

### EFFECTS OF OVEREXPOSURE:

**INHALATION:** May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. Headache, dizziness, nausea and loss of coordination are indications of excessive exposure to vapors or spray mists.

**SKIN CONTACT:** Redness and itching or burning sensation may indicate excessive skin exposure.

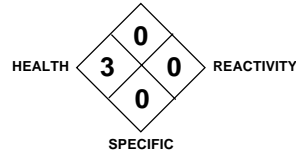
**EYE CONTACT:** Irritation. Redness and itching or burning sensation may indicate excessive eye exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None generally recognized.

**CHRONIC HEALTH HAZARDS:** Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver and urinary systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

## HAZARD RATINGS

**NFR:** FLAMMABILITY



**HMIS:**

3	HEALTH
0	FLAMMABILITY
0	REACTIVITY
B	PROTECTION

## 4. FIRST AID MEASURES

### EMERGENCY FIRST AID PROCEDURES:

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Get medical attention.

**SKIN CONTACT:** Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

**EYE CONTACT:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (METHOD USE):** Not Applicable      **FLAMMABLE LIMITS:** LEL N/A      UEL N/A

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, foam

**FIRE FIGHTING PROCEDURES:** Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**UNUSUAL AND EXPLOSION HAZARDS:** Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode (due to build-up of pressure) when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

## 6. ACCIDENTAL RELEASE MEASURES

**SPILLS OR LEAKS:** Remove all sources of ignition. Ventilate and remove with inert absorbent.

## 7. HANDLING AND STORAGE

**SPECIAL PRECAUTIONS:** Keep away from heat, sparks or open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated – Do not smoke – Extinguish all flames, pilot lights and heaters – Turn off stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code. Use approved bonding and grounding procedures. Contents under pressure. Do not puncture, incinerate or expose to temperature above 120°F. Heat from sunlight, radiators, stoves, hot water and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**PRECAUTIONS TO BE TAKEN IN USE:** Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

**RESPIRATORY PROTECTION:** If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

**EYE PROTECTION:** Wear safety spectacles with unperforated sideshields.

**OTHER EQUIPMENT:** None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

**EXPOSURE GUIDELINES:** Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**BOILING POINT:** <0°F to 150°F

**VAPOR PRESSURE PSIG at 70°F:** N/D

**VAPOR DENSITY (AIR = 1):** Heavier than Air

**SOLUBILITY IN WATER:** N/A

**PERCENT VOLATILE BY VOLUME:** 100%

**APPEARANCE AND ODOR:** Clear, Solvent

**PRODUCT WEIGHT:** 10.02 lb./gal.

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.21

**MELTING POINT:** N/A      **pH:** N/A

**EVAPORATION RATE (BUTYL ACETATE = 1):** Faster than Ether

**VOLATILE WEIGHT:** 3.88% (less Federally Exempt Solvents)

**FORM:** Liquid      **VOLATILE COMPONENTS:** N/D

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** None known

**HAZARDOUS POLYMERIZATION:** Will not occur

**INCOMPATIBILITY (MATERIALS TO AVOID):** None known

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** By fire: carbon dioxide, carbon monoxide

**11. TOXICOLOGICAL INFORMATION**

**EYE:** No data available.

**SKIN:** No data available.

**INGESTION:** No data available.

**INHALATION:** No data available.

**SUBCHRONIC:** No data available.

**CHRONIC CARCINOGENICITY:**

**CARCINOGENICITY:** NTP: Not Listed      **IARC MONOGRAPH:** Not Listed      **OSHA REGULATED:** Not Regulated

**TERATOLOGY:** No data available.

**REPRODUCTION:** No data available.

**MUTAGENICITY:** No data available.

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** No data available.

**CHEMICAL FATE INFORMATION:** No data available.

**13. DISPOSAL CONSIDERATIONS**

**RCRA HAZARD CLASS:** No data available.

**WASTE DISPOSAL METHOD:** Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State and Local regulations regarding pollution

**14. TRANSPORT INFORMATION**

**TRANSPORTATION REQUIREMENTS (49CFR172-101)**

**D.O.T. CLASSIFICATION:** Consumer Commodity ORM-D

**D.O.T. SHIPPING NAME:** None

**15. REGULATORY INFORMATION**

**EXPOSURE LIMITS:** No data available.

**16. OTHER INFORMATION**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this MSDS. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

N/D — NOT DETERMINED      N/A — NOT APPLICABLE      N/R — NOT REGULATED

Conforms to 29 CFR 1910.1200, OSHA  
ANSI Z129.1 - 1988 American National Standard for Hazardous Industrial Chemicals