



MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®
100 DaVinci Drive, Bohemia, New York 11716 • 888-567-2206 • www.chromate.com

FOR CHEMICAL
EMERGENCY
Call Chemtrec day/night:
1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Contact Cleaner P.S.
RED LION PART NUMBER: 74704
PRODUCT TYPE: Aerosol Cleaner
CHEMICAL FAMILY: N/A

DATE PREPARED: 12/05/02

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2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	OSHA PEL	ACGIH TLV	STEL	CAS #
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	N/D	50 ppm AEL**	50 ppm AEL**	N/D	507-55-1
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	N/D	50 ppm AEL**	50 ppm AEL**	N/D	422-56-0
1,1,1,3,3-Pentafluorobutane	N/D	5000 ppm	5000 ppm	N/D	406-56-6
1,1,1,2-Tetrafluoroethane	N/D	1000 ppm	1000 ppm	N/D	811-97-2
Isopropyl Alcohol	N/D	400 ppm	400 ppm	N/D	67-63-0

T.S.C.A. STATUS: All components listed.

* 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.

** Recommended Acceptable Exposure Limits are 50 ppm for 8 hour exposures. EEL recommended exposure limitation is 1,000 ppm threshold for 15 minutes, and 2,000 ppm threshold for 1 minute exposures (EEL) 8-hour.

3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Inhalation, Skin, Eyes

EFFECTS OF OVEREXPOSURE:

INHALATION: Excessive inhalation of high vapor concentrations may cause dizziness, weakness, fatigue, nausea, headache, unconsciousness. Extreme inhalation overexposures may cause death via asphyxiation.

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: Pre-existing cardiovascular disease and skin conditions.

CHRONIC HEALTH HAZARDS: Extreme inhalation overexposures may cause death via asphyxiation.

HAZARD RATINGS

NFR: FLAMMABILITY



HMS:

2	HEALTH
1	FLAMMABILITY
1	REACTIVITY
B	PROTECTION

4. FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove victim to fresh air, administer oxygen if necessary. If victim has stopped breathing, begin CPR and get immediate medical attention.

INGESTION: If liquid is swallowed, consult physician immediately. DO NOT induce vomiting unless physician directed. If spontaneous vomiting occurs, keep victim's head below hips to prevent aspiration of vomitus into lungs.

SKIN CONTACT: Wash affected area thoroughly with soap and water. If irritation develops or persists, consult a physician.

EYE CONTACT: Flush eyes with water for at least 15 minutes. Consult a physician.

5. FIRE FIGHTING MEASURES

FLASH POINT (METHOD USE): None to initial boiling point 90°F (40°C) **FLAMMABLE LIMITS:** LEL N/E UEL N/E

EXTINGUISHING MEDIA: Foam, dry chemical, CO₂.

FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water fog. Disperse gas vapors with water spray.

UNUSUAL AND EXPLOSION HAZARDS: The solvent blend of this formulation thermally decomposes to produce irritating, toxic and corrosive gases under fire conditions. Heated containers may rapidly over-pressurized to fail explosively.

6. ACCIDENTIAL RELEASE MEASURES

SPILLS OR LEAKS: Extinguish potential ignition sources, ventilate area. Take up spilled material on an inert, absorbent material and place into a closed-top, DOT-approved waste container for disposal. Prevent spilled liquid from entering sewers or drains.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS: Store containers below 120°F (48°C). Keep away from heat, open flame, or other ignition sources. Keep aerosols out of direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE: Avoid eye and continued, prolonged skin contact with this compound. Avoid excessive inhalation of its vapors. Use only in well-ventilated environments. Intentional inhalation of contents is harmful and may be fatal.

RESPIRATORY PROTECTION: Mechanical (general) ventilation for standard manufacturing procedures is usually adequate. If TLVs or PELs are exceeded and when this compound is used in poorly ventilated or oxygen-deficient atmospheres, user should wear a NIOSH approved organic respirator for organic vapors or a positive pressure, air-supplied respirator. Do not exceed respirator manufacturer's prescribed equipment limitations.

EYE PROTECTION: Safety glasses, splash goggles, face shield. Eye wash station is ideally stationed near point of use.

OTHER EQUIPMENT: Impervious PVA or neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 90°F to 131°F (40°F to -54°C)

VAPOR PRESSURE: 1551 mmHg (30 psig)

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: Negligible

APPEARANCE AND ODOR: Transparent, colorless / Slight ethereal odor

SPECIFIC GRAVITY (H₂O = 1): 1.305

MELTING POINT: N/A

pH: N/A

EVAPORATION RATE (ETHER = 1): >1

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

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions

CONDITIONS TO AVOID: None known

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong acids, alkalies, reactive metals, sodium, calcium, magnesium, zinc, lithium shavings, etc. Avoid also strong oxidizing agents. Avoid contact with heat, flame, high-intensity heat sources.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Under fire conditions – hydrochloric and hydrofluoric acids, possible carbonyl halides such as phosgene and oxides of carbon.

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: Comply with all existing federal, state and local environmental regulations. Waste or unwanted material may be reclaimed or incinerate by federally permitted facilities.

14. TRANSPORT INFORMATION

D.O.T. SHIPPING NAME: Aerosols, non-flammable (each not exceeding 1L capacity)

U.N./N.A. NUMBER: UN1950

DOT HAZARD CLASS: 2.2

DOT REQUIRED LABEL: 2, Non-flammable gas (air shipment only)

DOT EXCEPTION: See code 49 section 172.101 column (8A). Section 173.306(h) permits "limited quantity" materials (inner packagings which do not exceed 1L capacity / 61 cubic inches and for which internal pressures do not exceed 180 psig at 130°F). meeting section 171.8 definition of "consumer commodity" to be renamed "Consumer commodity" and reclassified as ORM-D when shipped via ground mode, domestically.

IMDG SHIPPING NAME: Aerosols, non-flammable (each less than 1L capacity)

FREIGHT CLASS: NMFC 48580, Sub 3

LTL: 55

TL: 35

MW: 36

T.S.C.A. STATUS: All components listed

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