



MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®

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**FOR CHEMICAL
EMERGENCY**

Call ChemTrec day/night:
1-800-424-9300

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RED LION DUST BLASTER MAX
PART NUMBER: 74175

DATE PREPARED: April 7, 2009

PRODUCT TYPE: COMPRESSED GAS DUSTER
(SELF-PRESSURIZED)

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PRODUCT DESCRIPTION: An inert, dry HFC gas product used for removing foreign particles from delicate devices (keyboards, circuit boards, computers, electronic components, photographic and video equipment). Does not deplete ozone.

RESTRICTIONS: NON-RESTRICTED.

SECTION 2 – HAZARDOUS INGREDIENTS

INGREDIENT NAMES	CAS #	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD ₅₀
1, 1, 1, 2-TETRAFLUOROETHANE	811-97-2	1000 ppm (See below*)	N/E

*AIHA established Workplace Environmental Exposure Level (WEEL)

CARCINOGENIC: OSHA: NO

NTP: NO

IARC: NO

SECTION 3 – PHYSICAL DATA

APPEARANCE: Clear, colorless, liquid gas

ODOR: Faint ethereal odor

BOILING POINT: -15°F (-26°C)

VAPOR DENSITY (AIR = 1): 3.18

VAPOR PRESSURE: 4268 mmHg @20°C

SOLUBILITY IN WATER: Very low (0.15% BY WEIGHT)

SPECIFIC GRAVITY: 1.27 @ 20°C

EVAPORATION RATE (ETHER = 1): >1

SECTION 4 – FIRE AND EXPLOSION DATA

HMIS RATING:

HEALTH: 1

FIRE: 0

REACTIVITY: 1

FLASH POINT: None

FLAMMABLE LIMITS:

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA: As appropriate for surrounding combustibles.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition may occur with exposure to high temperature or open flames.
Heated containers may over-pressurize and fail explosively.

SPECIAL FIRE-FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus. Cool fire-exposed containers with water fog.

N/A — NOT APPLICABLE
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

SECTION 5 – HEALTH HAZARD DATA**EMERGENCY AND FIRST AID PROCEDURES:**

Eye Contact: If liquid phase contents are sprayed into eyes, immediately flush eyes with tepid water for at least 15 minutes and immediately consult a physician. Freeze burns can occur if liquid phase of gas contents contacts eye tissue.

Skin Contact: If liquid phase contents are sprayed onto skin, rinse affected area with tepid water. If freeze burn occurs, skin irritation develops or persists, consult with a physician promptly.

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 phase contents are swallowed, get immediate medical attention; liquid phase contents can freeze mucous membranes, eye tissues and skin.

IMPORTANT: Keep container oriented upright during use; avoid inverting, tilting or shaking can during use — failure to observe this warning may result in liquefied gas rather than vapor phase gas being expelled from can to possibly damage work pieces or cause freeze burns if unprotected skin is contacted.

MEDICAL CONDITIONS PRONE TO AGGRAVATED BY:

EXPOSURE: Cardiovascular disease.

PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.

HEALTH HAZARDS (ACUTE AND CHRONIC)/ EFFECTS OF OVEREXPOSURE:

- Acute skin contact with liquefied gas phased contents; contact may result in freeze burns to exposed tissues.
- Contact of eye tissues with liquefied gas phased contents may result in freeze burns.
- Excessive inhalation of 1, 1, 1, 2-TETRAFLUOROETHANE concentrations may cause dizziness, weakness, fatigue, nausea, headache, unconsciousness, possible asphyxiation.
- Swallowing this product is expected to cause headache, nausea, vomiting, stomach cramps and diarrhea.
- LC₅₀ for 1, 1, 1, 2-TETRAFLUOROETHANE (rats) is 4 hr >500,000 ppm.

SECTION 6 – REACTIVITY DATA

STABILITY: Stable under normal use and storage conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS (Under fire conditions): Hydrochloric and hydrofluoric acids, possible carbonyl halides.

INCOMPATIBILITY: Avoid alkali or alkaline earth metals, powdered Al (ALUMINUM) Zn (ZINC), Be (BERYLLIUM), ETC.

CONDITIONS TO AVOID: Contact with incompatible materials and open flames.

SECTION 7 – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contents are rapidly absorbed into the air.

WASTE DISPOSAL: Dispose of unwanted product in accordance with existing Federal, State and Local environmental regulations. 1, 1, 1, 2-TETRAFLUOROETHANE may be reclaimed or incinerated by permitted facilities.

SECTION 8 – SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally required; mechanical (general) ventilation is generally adequate. Wear a NIOSH-approved respirator for organic vapors in nuisance-level vapor concentrations; a positive pressure, air-supplied respirator is recommended worn in a high vapor concentrations or oxygen deficient atmospheres.

PROTECTIVE GLOVES: PVA or neoprene gloves.

EYE PROTECTION: Safety glasses, splash goggles, face shield.

OTHER PROTECTIVE EQUIPMENT: Eye wash station.

SECTION 9 – SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and skin contact with liquid. Avoid excessive inhalation of its vapors. Use in a well-ventilated environments. Intentional inhalation of contents is harmful and may be fatal.

PRECAUTIONS TO BE TAKEN IN STORING: Store containers below 120°F (48°C), away from heat sources, open flame, and out of direct sunlight.

SECTION 10 – SHIPPING DATA

UN/ NA NUMBER: UN 3159

DOT/IATA SHIPPING NAME: 1, 1, 1, 2-TETRAFLUOROETHANE

DOT HAZARD CLASS: 2.2

DOT REQUIRED LABEL: 2, Non-flammable gas (air and vessel shipments)

DOT EXCEPTION: (*Domestic Shipments Only*): DOT-SP 10232 (13th revision) exempts this product from certain code 49 regulation (s) as written in 173.304(a) and 173.306(a). Modified "2Q" specification containers of capacity not exceeding 33 cubic inches (18.5 fluid ounces) filled with 1, 1, 1, 2-TETRAFLUOROETHANE and which comply with section 171.8 definition "consumer commodity" are permitted re-classed as ORM-D material and renamed "Consumer commodity" when shipped in commerce via ground mode, domestically. *Copy of DOT-SP 10232 13th Revision is available upon request by calling DOT in your area. Copy of DOT-SP10232 must accompany air and vessel shipments of this product.*

TECHNICAL SHIPPING NAME: Refrigerant gas R-134a

IMDG SHIPPING NAME: 1, 1, 1, 2-TETRAFLUOROETHANE

FREIGHT CLASS: NMFC 86150

LTL: 70 **TL:** 40 **MW:** 30

TSCA STATUS: Listed.

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