

MATERIAL SAFETY DATA SHEET
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EMERGENCY PHONE NO.: (FOR SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT): 1-800-535-5053

***** CLEANER LUBE 12103, 12106 *****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Cleaner Lube (aerosol)
 PRODUCT DESCRIPTION: Nonflammable, safe for use on energized equipment. Protects metal contacts from carbon buildup, oxidation and corrosion – minimizes friction and metal wear. Fast drying, excellent dielectric properties, deep penetrating action. *Not recommended for use on acrylic, polystyrene or polycarbonates!*
 RESTRICTIONS: Commercial / industrial use only.

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT NAME(S) | CAS# | OCCUPATIONAL EXPOSURE LIMITS | |
|------------------------------|-----------|------------------------------|---------------|
| | | TLV OR PEL | ORAL LD-50 |
| 1,1,-Dichloro-1-fluoroethane | 1717-00-6 | 500 ppm (See below*) | 5 gm/kg (Rat) |
| Carbon Dioxide | 124-38-9 | 5000 ppm | N.E. |

*Recommended Workplace Environmental Exposure Level (WEEL) as established by American Industrial Hygiene Association

Carcinogenic: OSHA = no NTP = no IARC = no

SECTION III - PHYSICAL DATA

APPEARANCE: Transparent, colorless liquid
 ODOR: Slight ethereal, sweet odor
 BOILING POINT: 89.6 Degrees F. (31.66 degrees C.)
 VAPOR DENSITY (Air = 1): 4.1
 VAPOR PRESSURE: 518 mmHg @ 70 degrees F.
 SOLUBILITY IN WATER: Negligible
 SPECIFIC GRAVITY: 1.24
 EVAPORATION RATE (Ether = 1): >1

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING: Health – 1, Fire - 1, Reactivity - 1
 FLASH POINT : None to boiling (TCC)
 FLAMMABLE LIMITS: LEL: 7.6 UEL: 17.7
 EXTINGUISHING MEDIA: Dry chemical, CO2, water fog
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Heated containers may over-pressurize and fail explosively. Heat or flame may thermally decompose this material to produce hazardous, toxic and corrosive gases.
 SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water fog

SECTION V - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:
Eye Contact: Flush eyes with water for at least 15 minutes. Consult a physician. Skin Contact: Wash affected area with soap and water. If irritation develops or persists, consult a physician. Inhalation: Remove victim to fresh air, administer oxygen if necessary. If victim has stopped

breathing, begin CPR, get immediate medical attention. Ingestion: If material is swallowed, consult a 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. MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Cardiovascular disease, pre-existing skin conditions
 PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.
 HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE: Excessive inhalation of high vapor concentrations may cause dizziness, weakness, fatigue, nausea, headache, unconsciousness, or, in extreme overexposures, asphyxiation.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal use and storage conditions. Aerosol containers may fail explosively when heated under fire conditions.
 HAZARDOUS POLYMERIZATION: Will not occur.
 HAZARDOUS DECOMPOSITION PRODUCTS (under fire conditions): Hydrochloric acid, hydrofluoric acid, carbonyl halides such as phosgene, small amounts of carbon oxides.
 INCOMPATIBILITY: Avoid contact with strong acids, alkalis, reactive metals, sodium, calcium, magnesium, zinc, lithium shavings, etc., as well as strong oxidizing agents.
 CONDITIONS TO AVOID: Avoid potential ignition sources such as sparks, flames, electric arcs or other high intensity energy sources.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Immediately extinguish potential ignition sources, ventilate area. Take up spilled material on an inert, absorbant material and place into a closed-top, DOT approved container for disposal. Prevent liquid from entering sewers or drains.
 WASTE DISPOSAL: Comply with all existing Federal, State and Local environmental regulations. Waste or unwanted material may be reclaimed or incinerated by permitted facilities.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally required; mechanical (general) ventilation is usually adequate. Wear a NIOSH approved organic respirator in nuisance level concentrations, a positive pressure, air-supplied respirator in high vapor concentrations or oxygen-deficient atmospheres. Local exhaust ventilation may also be used to control airborne vapor levels in work areas.
 PROTECTIVE GLOVES: PVA or Neoprene gloves
 EYE PROTECTION: Safety glasses, splash goggles, face shield
 OTHER PROTECTIVE EQUIPMENT: Eye wash station.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and skin contact with liquid. Avoid excessive inhalation of vapors. Use in a well-ventilated environment. 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 or ignition sources, open flame, out of direct sunlight.

SECTION X – SHIPPING DATA

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

Cleaner Lube 12103, 12106

DOT/IATE SHIPPING NAME: Aerosols, non-flammable, (each not exceeding 1L capacity)

DOT/IATA HAZARD CLASS: 2.2

DOT/IATA REQUIRED LABELS: 2, 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 degrees F.) meeting section 171.8 definition of "consumer commodity" to be renamed Consumer commodity, reclassified as ORM-D when shipped via ground mode, domestically.

IMDG SHIPPING NAME: Aerosols, non-flammable, (each not exceeding 1L capacity)

FREIGHT CLASS: NMFC 48580, Sub 3

LTL: 55 TL: 35 MW: 36

TSCA STATUS: All components listed

PREPARED BY: Roger Hanson

DATE PREPARED: 01-26-00 SUPERSEDES: 01-13-00

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N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE