



LAMINATION TOOLING
Serving the P.C. Industry Since 1977

MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Tuf-Lube Spray (TL-2000)
Product code: P5604572
Chemical family: Saturated Hydrocarbons
Formula: Fluorotelomer/halogenated hydrocarbon ether blend/alcohol

Supplier: TADCO, Inc.

EMERGENCY PHONE NUMBER: 509 674-0990

Chemtrec Emergency Number 1-800 424-9300 – Only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

Halogenated hydrocarbon/1000 ppm AEL(DuPont)
Ether blend
CAS # mixture

Fluorotelomer mixture
CAS # 65530-85-0 and 79070-11-4

Isopropyl Alcohol
CAS # 67-63-0
ACGIH TLV 400 ppm
OSHA PEL 400 ppm

This product contains no ozone-depleting chemicals.

Hazardous Identification

HMIS Rating
Health: 2 Flammability: 1 Reactivity: 0 Protection: A

NFPA Rating
Health: 2 Flammability: 1 Reactivity: 0



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EMERGENCY OVERVIEW

Potential Health Effects

Routes of Entry: Inhalation/skin

Human Effects and Symptoms of Overexposure

Inhalation: Inhalation of high concentrations of vapor is harmful and may cause temporary nervous system depression with anesthetic effects such as dizziness, headache, incoordination, and loss of consciousness. May cause minor irritation of the nose. Higher exposures may cause temporary alteration of the heart's electrical activity.

Skin contact: Skin contact with the liquid may cause freezing of the skin.

Eye contact: Eye contact with the vapor may produce eye irritation with tearing or blurring of vision.

Ingestion: Although ingestion is not considered a potential route of exposure, excessive vapor concentration may cause minor irritation of the throat.

Carcinogenicity: NTP: None
IARC: None
OSHA: None

Medical conditions aggravated by exposure: None known.

First Aid Measures

First Aid for Eyes: Immediately flush with water for at least 15 minutes. Call a physician.

First Aid for Skin: Flush with water after excessive contact. Treat for frostbite if necessary.

First Aid for Inhalation: Immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

First Aid for Ingestion: Ingestion is not considered a potential route of exposure.

Fire Fighting Measures

Flash Point: Nonflammable as determined by the Aerosol Flame Protection Test (equivalent to ASTM D2065-77 and FHSA Section 1500.45).

Extinguishing Media: CO₂, dry chemical, foam spray.

Special Fire Fighting Procedures: Use self-contained breathing apparatus (SCBA) if product is released under fire conditions. Containers may rupture or explode under fire conditions. Vapor confined in a poorly ventilated area may be ignited by a spark or flame. Keep containers cool with spray. Stop leakage. Do not put out fires unless leak can be stopped immediately.

Accidental Release Measures

Spill or Leak Procedures: Evacuate area until gas has dispersed. Wear self-contained breathing apparatus (SCBA) for large spills or leaks. Eliminate all sources of ignition in the vicinity of spill or released vapors.



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Handling and Storage

Handling and Storage Precautions: Contents under pressure. Handle with adequate ventilation. Protect container against physical damage. Do not remove or deface label. Store container in cool dry areas away from heat sources. Keep containers with cap on while not in use. Do not smoke while using. Do not store aerosol cans above 120 degrees F. Wash hands thoroughly after using release agent and prior to smoking. Use good industrial hygienic practices.

Shelf Life: One year after date of manufacture.

Special Sensitivity: None available from supplier.

Exposure Control / Personal Protection

Other protective equipment: Eye bath, safety shower.

Eye protection requirements: The use of chemical safety glasses with side shield.

Skin protection requirements: The use of lined rubber gloves is recommended. Use impervious clothing if necessary to avoid skin contact.

Respiratory / ventilation requirements: Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low places.

Physical and Chemical Properties

Physical form: Liquid (in aerosol form)

Color: Clear

Odor: Slight ethereal

Bulk density: 7.18 lbs/gal

Specific gravity: 0.86 @ 70°F

Flash point test Nonflammable (as determined by the aerosol flame protection equivalent to ASTM D 3065-77 and FHSA Section 1500.45)

Vapor pressure: 60 PSIG @ 70°F (aerosol container pressure)

Vapor density: Less than 1.0 (air = 1)

% volatile by weight: 90-99

Boiling point: -13°F (-25°C)

Melt point/Freeze point: n/a

PH: n/a

Solubility in water: Insoluble



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Reactivity

- Stability:** Stable
- Conditions to avoid:** Open flames and high temperatures
- Hazardous polymerization:** Will not occur
- Incompatibilities:** Alkali or alkaline earth metals – such as powdered Zn, Be, etc.
- Decomposition products:** Some components of this product can be decomposed by high temperature (open flame, glowing metal surfaces, etc.) forming hydrochloric and hydrofluoric acids.

Toxicological Information

None available from supplier.

Ecological Information

None available.

Disposal Considerations

- Waste disposal method:** Dispose according to federal, state, and local regulations. Do not incinerate cans. Empty containers must be handled with care due to residue and combustible vapors.

Transportation Information

- D.O.T. shipping name:** Aerosol, Nonflammable
- Technical shipping name:** Halogenated hydrocarbon/ether blend
- D.O.T. hazard class:** 2.2
- U.N./N.A. number:** UN 1950
- D.O.T. label:** Nonflammable gas
- Other information:** This product is shipped in strong outside cartons usually 12 (16oz.) aerosol containers per carton.

Regulatory Information

- SARATitle III Section 313:** None

Other Information

- Toxic Substance Control Act (TSCA) Inventory:** All the individual components are listed.

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