

Material Safety Data Sheet

Tribolube F-184

May be used to comply with OSHA's Hazard Communication Standard.
29 CFR 1910.1200 Standard must be consulted for specific requirements.

QUICK IDENTIFIER
Common Name: (used on Label and list)

SECTION 1- MANUFACTURER

Manufacturer's Name

Aerospace Lubricants, Inc

Address

1600 Georgesville Road

Emergency Telephone No.

614-878-3600

City, State, and Zip

Columbus, Ohio 43228

Other Information Calls

614-878-3600

Signature of Person



Date *January 3, 2006*

Responsible for Preparation

Stephen E. Gates

Prepared

Rev. D

HEALTH

1

FLAMMABILITY

0

REACTIVITY

0

PERSONAL PROTECTION

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SECTION 2- HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
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No hazardous components were knowingly incorporated into this solvent. This product is not considered hazardous according to the OSHA

Hazardous Communication Standard 29CFR 1910.1200

Threshold Limit Value: LD50>40G/KG (Non-toxic)

OSHA Threshold Limit Value: LD50>40G/KG

ACGIH Threshold Limit Value: LD50>40G/KG

Carcinogen - NTP Program: N/A

Carcinogen - IARC Program: N/A

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	> 270°C	Specific Gravity (H O=1)	1.90	Vapor Pressure (mm Hg)	< 10 ⁻³ torr @ 20°C
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Vapor Density (Air=1) N/A

Solubility in Water	None	Reactivity in Water	Non-reactive
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Appearance and Odor	Clear, Odorless Liquid	Melting Point	NA
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SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	None	Method Used	N/A	Flammable Limits in Air % by Volume	N/A	LEL Lower	N/A	UEL Upper	N/A
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Auto-Ignition Temperature	Nonflammable	Extinguisher Media	N/A
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Special Fire Fighting Procedures

Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Decomposition at temperatures above 290°C may cause the evolution of toxic gaseous fluorine compounds.

Unusual Fire and Explosion Hazards

Toxic fluorine gases are by-products of combustion.

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Tribolube F-184

Stability Unstable Conditions to Avoid Stable Avoid heating above 250°C.

Incompatibility (Materials to Avoid) Molten alkali metals, interhalogen compounds, strong or nonaqueous alkali and Lewis acids above 100°C

Hazardous Decomposition Products HF and COF₂ (both toxic*) from thermal decomposition in air (at temperatures greater than 290°C)

Hazardous polymerization May Occur Will Not Occur Conditions to Avoid Avoid heating above 250°C

* HF-Hydrogen fluoride has TVL/TWA=2.5mg/m³
COF₂-Carbonyl fluoride has TVL/TWA=5mg/m³

SECTION 6 - HEALTH HAZARDS

1. Acute None 2. Chronic None

Signs and Symptom of Exposure Mild irritant to the skin upon prolonged exposure for some individuals.

Decomposition products formed at high temperatures above 250°C may cause "polymer fever."

Medical Condition Generally Aggravated by Exposure No known medical condition that might be aggravated by exposure.

Chemical Listed as Carcinogen or Potential Carcinogen None National Toxicology Program Yes No I.A.R.C. Monographs Yes No OSHA Yes No

Emergency and First Aid Procedures See below

ROUTES OF ENTRY

- Inhalation Slightly toxic by inhalation (4 hr. LC 50 1,000-5000 ppm; 8-40 mg/l). If discomfort occurs, move to fresh air; contact physician.
- Eyes Flush with water; if irritated, contact physician.
- Skin Wipe off and wash with soap and water. If irritation develops, contact physician.
- Ingestion Very low toxicity by contact (LD50> 10,00 mg/kg)
Very low toxicity by ingestion (oral LD50>5,000 mg/kg). Give large amounts of water; contact physician. Inform physician product is inert/non-toxic.

SECTION 7 -SPECIAL PRECAUTION AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage Use reasonable care. Do not store above 250°F or near flammables or explosive material.

Other Precautions Toxic vapors may evolve above 250°C provide adequate ventilation if used above this temperature.

Avoid spills: causes slippery surfaces.

Steps to be Taken in Case Material is Released or Spilled Scrape up with proper tools; wipe up with absorbant cloth or paper towel; apply non-skid absorbant material to floor. Collect waste materials for salvage or disposal.

Waste Disposal Methods (Consult federal, state, and local regulations) Dispose of in accordance with current Federal, State, and Local Regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type) Not required unless product is being used as a mist.

Ventilation	Local Exhaust	Mechanical (General)	Special	Other
Recommended	Not required	Recommended	Not required	

Protective Gloves Plastic disposable Eye Protection Safety glasses recommended

Other Protective Clothing or Equipment Plastic apron, fabric laboratory coat recommended.

Work/Hygienic Practices Do not contaminate smoking materials; wash hands and / or contaminated area after exposure.