

MATERIAL SAFETY DATA SHEET

IDENTITY: TUFOIL FOR ENGINES

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

Product Name: Tufoil for Engines

Manufacturer: Fluoramics Inc.

Address: 18 Industrial Avenue, Mahwah, N.J. 07430

Emergency Phone: 201-825-8110

Information Phone: 1-800-922-0075

Fax Number: 201-825-7035

Product use: Engine Lubricant

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

This material is not classified as hazardous under OSHA regulations.

COMPONENTS	CAS #	Weight %	ACGIH - TLV-TWA
Petroleum Hydrocarbon Motor Oil	64741-88-4	35-40	5mg/m ³
Methacrylate/Vinyl Pyrrolidine Copolymer	68171-46-0	25-30	N/A
Polyalpha olefin	68649-12-7	10-20	N/A
Didecyl adipate Dimer Ester	16958-92-2	5-10	N/A
Molybdenum Di (2-ethyl) Phosphordithioate	72030-25-2	5-10	N/A
Polytetrafluoroethylene	9002-84-0	1-5	N/A

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point: 300° F Overpoint

Vapor Pressure: Nil

Vapor Density: N/A

Solubility in Water: Nil

**Physical State at Room Temperature -
Liquid**

Specific Gravity: 9047

Melting Point: N/A

Evaporation Rate (Butyl Acetate 1):
N/A

Water Reactive: N/A

Appearance and Odor: Reddish tan -

odorless

SECTION 4 - FIRE & EXPLOSION HAZARD DATA

Flash Point & Method Used: 435° F - ASTM D 92

Flammability Limits in Air % by Volume: N/A

Extinguisher Media: Carbon Dioxide - Dry Chemical

Special Fire Fighting Procedures: Use foam and water. Spray carefully to prevent excessive frothing. Cool exposed containers with water.

Unusual fire and Explosion Hazards: Do not store or mix with strong oxidants.

	NFPA CODES	HMIS CODES
HEALTH	1	1
FLAMMABILITY	1	1
REACTIVITY	0	0
PERSONAL PROTECTION		B

SECTION 5 - REACTIVITY HAZARD DATA

Stability: Stable

Conditions to Avoid: Excessive heat - direct flame

Incompatibility (Materials to Avoid): Strong oxidants, ie Liquid Chlorine or Concentrated Oxygen

Hazardous Decomposition Products: CO² - Trace quantities of fluorides. Decompose product above 500° F

Hazardous Polymerization: Will not occur

SECTION 6 - HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation, skin absorption, ingestion

Carcinogen listed in: N/A

Health Hazards: Acute - treat symptomatically

Signs and Symptoms of Exposure: Prolonged & repeated over-exposure may irritate the skin or some individuals.

Medical Conditions Generally Aggravated by Exposure: See below.

Eye Contact: Wash with copious amounts of water.

Skin Contact: Remove by wiping and wash with soap and water.

Inhalation: Expose to fresh air.

Ingestion: Treat symptomatically. Call physician.

Emergency First Aid Procedures: Seek medical assistance for further treatment, observation and support if necessary.

SECTION 7 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type): None required at ambient temperature.

Protective Gloves: Butyle rubber

Eye Protection: Safety goggles

Ventilation to be Used: Local exhaust (preferred), Mechanical (general); usually none.

Other Protective Clothing and Equipment: Protective garment when applicable.

Hygienic Work Practices: As indicated.

SECTION 8 PRECAUTIONS FOR SAFE HANDLING AND USE LEAK PROCEDURES

Steps to be Taken if Material is Spilled or Released: Absorb with porous inert material. Transfer to closed container.

Waste Disposal Methods: Sealed drum containment as per organic chemicals. Follow federal, state and local regulations regarding health and pollution.

Precautions to be Taken in Handling and Storage: Keep containers closed when not in use.

Other Precautions and/or Special Hazards: Avoid frequent or prolonged skin contact or inhalation of fumes, mists and vapors.

SECTION 9 PHYSICAL & CHEMICAL PROPERTIES / DANGEROUS GOODS SHIPPING REGULATIONS

U.S. (49 CFR): Proper Shipping Name:
Non-Hazardous Material

IATA: Proper Shipping Name:
Non-Dangerous Goods

IMDG: Proper Shipping Name:
Non-Dangerous Goods

Physical Properties:

Appearance: Translucent tan

Odor: Mild petroleum odor

Physical state: Liquid

pH as supplied

Boiling Point: N/A

Melting Point: N/A

Freezing Point: N/A

Vapor Pressure (mmHg): Nil

Vapor Density (air=1): N/A

Specific Gravity (H₂O=1): 9050

Evaporation rate: N/A

Solubility in water: Insoluble in cold water

SECTION 10: STABILITY & REACTIVITY

Stability: Stable

Conditions to avoid: Temperatures above 250F without adequate ventilation.

Will not polymerize

Incompatibility (Material to Avoid): Strong acids, bases and oxidizing agents

Hazardous decomposition or by-products: Carbon dioxide, carbon monoxide, unburned hydrocarbons and traces of sulfur, phosphorus or nitrogen, PTFE

Decomposition product.

SECTION 11: TOXICOLOGICAL INFORMATION

No toxicology data available

SECTION 12: ECOLOGICAL INFORMATION

Do not allow to enter soil, waterways or wastewater

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Follow all local, state and federal regulations

RCRA Hazard Class: Determine if this material is a RCRA Hazardous Waste at the time of disposal

SECTION 14: TRANSPORTATION INFORMATION

Transportation Information: N/A

SECTION 15: REGULATORY INFORMATION

Non-hazardous product

U.S. Federal Regulations: TSCA (Toxic Substance Control Act):

The components of this product are listed

SARA Title III (Superfund Amendments and Reauthorization Act):

311/312 Hazard Categories: No Hazard categories identified

SECTION 16: OTHER INFORMATION

Date prepared: February 20, 2012