

## Safety Data Sheet

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Information**

Product name: Tufoil

Alternate names: ----

Product Description: Friction/Wear Modifier Additive, Lubrication

**Recommended use**

Lubrication systems - transmissions, engines, bearings, gear boxes

**Company Identification**

Fluoramics, Inc.

121 Steuben Street

Winona, MN 55987

Emergency Number: 507-205-9216

General Contact Number: 800-922-0075

### SECTION 2: HAZARDS IDENTIFICATION

**Classification of substance or Mixture**

This product is not considered to be a hazardous substance or mixture when classified in accordance with Regulation 29 CFR 1910.1200 (US GHS)

**Label Elements**

GHS Pictogram: none

Remarks: ----

**Other Hazards**

None known.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This material is defined as a mixture.

**No Hazardous Substance(s) or Complex Substance(s) required for disclosure.**

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

### SECTION 4: FIRST AID MEASURES

<b>Inhalation</b>	If inhaled, remove to fresh air. If symptoms persist, consult physician for treatment.
<b>Skin contact</b>	Wash skin with soap and plenty of water. Remove contaminated clothing. Wash clothing before reuse.
<b>Eye contact</b>	immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.
<b>Ingestion</b>	If swallowed, only induce vomiting if directed by medical personnel. Get medical attention.

### SECTION 5: FIRE FIGHTING MEASURES

**Extinguishing media**Suitable Extinguishing Media: Use dry chemical, CO<sub>2</sub>, or foam. Water can be used to cool and protect product.

## Safety Data Sheet

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, it will spread the fire.

### Specific hazards arising from the chemical

In case of fire, the following hazardous fumes may be produced: Carbon monoxide, carbon dioxide, trace amount of hydrogen fluoride.

### Special protective equipment and precautions for fire-fighters

Wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

No health effects expect from the cleanup of this material if contact can be avoided. Remove all sources of ignition. Ventilate the area. Wear a self-contained breathing apparatus and appropriate personal protective equipment.

### Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate lake, streams, rivers, groundwater or soil.

### Methods and materials for containment and cleaning up

Floor may be slippery, use care to avoid falling. Contain spillage and then collect with non-combustible absorbent material (sand, vermiculite) and place in container for disposal according to local/national regulations.

### Reference to other sections

For personal protection see section 8

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Use appropriate personal protective equipment (see section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, keep lid tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a well-ventilated place. Do not store at temperatures above 100c/212f.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limit Information** None

### Appropriate Engineering Controls

No special requirements under ordinary conditions of use and with adequate ventilations. Use material in well ventilated area only.

### Individual protection measures.

#### General information

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Eyes/Face** Safety glasses with shields recommended

**Skin/Hand** Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water.

**Respiratory** No special requirements under ordinary conditions of use and with adequate ventilations. Use material in well ventilated area only.

## Safety Data Sheet

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

#### Information on basic physical and chemical properties

Physical State	Liquid
Color	Green-Brown
Odor	Characteristic of Petroleum
Relative Density (at 15.6°C)	0.87 to 0.882
Flash Point [COC]	235°C
Vapor Pressure	<0.1 mm Hg
Vapor Density (air=1)	>1
Relative Density	0.88
Solubility in Water	Negligible, 0-1%
Viscosity @ 40°C	90 cst
Viscosity @ 100°C	11 cst

### SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**MATERIALS TO AVOID:** Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

### SECTION 11: TOXICOLOGICAL INFORMATION

**General Information:** No toxicology test has been conducted on this mixture. Remarks/Conclusions are from a review of the mixture components

<b>Inhalation:</b>	Negligible hazard at ambient/normal handling temperatures.
<b>Ingestion:</b>	Minimally toxic. Based upon similar materials.
<b>Skin:</b>	Negligible irritation to skin. Based upon similar materials.
<b>Eye:</b>	May cause mild, short lasting discomfort to eyes. Based upon similar materials.
<b>Sensation:</b>	Not expected to be a respiratory or skin sensitizer. Based upon similar materials.
<b>Aspiration:</b>	Not expected to be an aspiration hazard.
<b>Germ Cell Mutagenicity:</b>	Not expected to be a germ cell mutagen. Based upon similar materials.
<b>Carcinogenicity:</b>	Not expected to cause cancer
<b>Reproductive Toxicity:</b>	Not expected to be a reproductive toxicant. Based upon similar materials.
<b>Lactation:</b>	Not expected to cause harm to breast-fed children
<b>Specific Target Organ Toxicity:</b>	Not expected to cause organ damage from single or prolonged/repeated exposure

## Safety Data Sheet

### OTHER INFORMATION

**For the product itself:** Synthetic base mixture. Not expected to cause significant health effects under conditions of normal use, based upon review of the mixture components.

### SECTION 12: ECOLOGICAL INFORMATION

**General Information** No investigations were carried out with the mixture itself. No evidence for hazardous properties. (analogy of components)

#### AQUATIC TOXICITY

**Acute Aquatic ecotoxicity:** No investigations carried out with mixture. No evidence for hazardous properties. (analogy)

**Chronic Aquatic ecotoxicity:** No data available

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available

**Mobility in soil:** No investigations carried out with mixture. No evidence for hazardous properties. (analogy)

**Results of PBT and vPvB assessment:** Classification criteria not met based on available data. (analogy)

**Other adverse effects:** none

#### ECOLOGICAL DATA

Do not allow to enter soil, waterways, or sewer systems.

### SECTION 13: DISPOSAL CONSIDERATION

#### WASTE DISPOSAL

**Waste treatment methods:** Dispose of according to Federal, State, Local, or Provincial regulations.

**Disposal Methods:** Recycle used oil.

**Waste Disposal:** Use material is non-hazardous according to environmental regulations.

**Contaminated packaging:** Recycle containers whenever possible!

#### EMPTY CONTAINER WARNING (where applicable)

Disposal should be in accordance with applicable regional, national and local laws and regulations..

### SECTION 14: TRANSPORT INFORMATION

#### US DOT Hazard Classification

Not subject to the regulations of dangerous goods.

#### Sea IMDG/GGVSee

Not subject to the regulations of dangerous goods

#### AIR ICAO/IATA

Not dangerous according to transportation regulations

### SECTION 15: REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for this mixture**

#### OSHA HAZARD COMMUNICATION STANDARD

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**CERCLA SECTIONS 302, 313, 311, 312:** This material does not contain reportable chemicals.

#### STATE REGULATIONS

**Massachusetts RTK Substances:** This material does not contain reportable chemicals

**New Jersey RTK Hazardous Substances:** This material does not contain reportable chemicals

**Pennsylvania RTK Hazardous Substances:** This material does not contain reportable chemicals

## Safety Data Sheet

**Rhode Island Right To Know (RTK):** This material does not contain reportable chemicals

**Canada CPR:** This product has been classified in accordance with the hazard criteria Controlled Products Regulations (CPR) and the SDS contains all the information required by the Regulations.

### SECTION 16: OTHER INFORMATION

<b>National Fire Protection Association (USA) NFPA</b>	<b>Health</b>	1	<b>Flammability</b>	1	<b>Reactivity</b>	0		
<b>Hazardous Material Identification System (USA) HMIS</b>	<b>Health</b>	1	<b>Flammability</b>	1	<b>Reactivity</b>	0	<b>Special Hazard</b>	0

#### DISCLAIMER:

The information and recommendations contained within this document are believed by Fluoramics to be accurate and reliable as of the date prepared. The information and recommendations are offered for the user's consideration and analysis and in no way guarantee the chemical specifications for the specified product. It is solely the responsibility of the user to determine safe conditions for use of this product and to assume liability for any loss, damage or expense arising out of the product's improper use. The user should consider the information in this document in the context of how the selected product will be handled and used in conjunction with other products. It is the user's responsibility to determine that the product is suitable for the intended use.

Appropriate warnings and safe-handling procedures should be provided to all handlers and users. Fluoramics assumes no responsibility for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices within this document.

**End of document**