



# Tutela F-200A Multi Season Hydraulic Oil

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Canadian WHMIS

Date of issue: 08/19/2015

Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture  
Product name : Tutela F-200A Multi Season Hydraulic Oil

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Lubricant

### 1.3. Details of the supplier of the safety data sheet

Viscosity Oil Company  
600 H Joliet Road  
Willowbrook, IL 60527  
T 630-850-4000 - F 630-850-4022

### 1.4. Emergency telephone number

Emergency number : (800) 434-9300  
CHEMTREC (24 HOURS)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GHS-US classification

Eye Irrit. 2A H319

Full text of H-statements: see section 16

#### Canadian WHMIS classification

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

### 2.2. Label elements

#### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H319 - Causes serious eye irritation  
Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling  
P280 - Wear eye protection, protective gloves  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: Get medical advice/attention

#### Canadian WHMIS labelling



### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

0.02 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
1.46 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
1.46 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

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### 3.2. Mixture

| Name                       | Product identifier  | %     | GHS-US classification                       |
|----------------------------|---------------------|-------|---|
| Zinc alkyl dithiophosphate | (CAS No) 68649-42-3 | 1 – 2 | Eye Dam. 1, H318<br>Aquatic Chronic 2, H411 |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with mild soap and water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after eye contact : Causes serious eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water fog.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Burning produces irritating, toxic and noxious fumes.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known.

### 5.3. Advice for firefighters

- Firefighting instructions : Cool adjacent structures and containers with water spray to protect and prevent ignition. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.
- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.
- Emergency procedures : Stop leak if safe to do so. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Do not allow minor leaks or spills to accumulate on walking surfaces. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.

### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist.  
Hygiene measures : Always wash your hands immediately after handling this product, and once again before leaving the workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.  
Incompatible products : Strong oxidizers.  
Incompatible materials : Heat sources.  
Heat and ignition sources : Keep away from heat, sparks and flame.  
Prohibitions on mixed storage : Incompatible materials.  
Storage area : Store in dry, cool, well-ventilated area.

#### 7.3. Specific end use(s)

Lubricant.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Tutela F-200A Multi Season Hydraulic Oil |                |
|--|----------------|
| ACGIH                                    | Not applicable |
| OSHA                                     | Not applicable |
| Zinc alkyl dithiophosphate (68649-42-3)  |                |
| ACGIH                                    | Not applicable |
| OSHA                                     | Not applicable |

#### 8.2. Exposure controls

Appropriate engineering controls : Avoid splashing. Ensure good ventilation of the work station. Eyewash stations.  
Personal protective equipment : Avoid all unnecessary exposure.  
Hand protection : Wear suitable gloves resistant to chemical penetration.  
Eye protection : Chemical goggles or safety glasses.  
Respiratory protection : In case of inadequate ventilation wear respiratory protection. NIOSH. Approved respirator.  
Environmental exposure controls : Avoid release to the environment. Prevent leakage or spillage.  
Other information : Do not eat, drink or smoke when using this product.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Colour : Light amber  
Odour : petroleum  
Odour threshold : No data available  
pH : No data available  
Melting point : No data available  
Freezing point : -45 °C  
Boiling point : No data available  
Flash point : 180 °C  
Relative evaporation rate (butyl acetate=1) : No data available  
Flammability (solid, gas) : No data available  
Explosive limits : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Vapour pressure : < 1 mm Hg  
Relative density : 0.88  
Relative vapour density at 20 °C : No data available

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|                           |                       |
|---------------------------|-----------------------|
| Solubility                | : insoluble in water. |
| Log Pow                   | : No data available   |
| Log Kow                   | : No data available   |
| Auto-ignition temperature | : No data available   |
| Decomposition temperature | : No data available   |
| Viscosity                 | : No data available   |
| Viscosity, kinematic      | : ≈ 40 cSt @ 40 °C    |
| Viscosity, dynamic        | : No data available   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO<sub>2</sub>). hydrocarbons. Nitrogen oxides. Phosphorus oxides. Sulphur oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

| Zinc alkyl dithiophosphate (68649-42-3) |                           |
|---|---------------------------|
| LD50 oral rat                           | 3100 mg/kg                |
| LD50 dermal rabbit                      | > 5000 mg/kg              |
| ATE US (oral)                           | 3100.000 mg/kg bodyweight |

|  |                                  |
|--|----------------------------------|
| Skin corrosion/irritation                          | : Not classified                 |
| Serious eye damage/irritation                      | : Causes serious eye irritation. |
| Respiratory or skin sensitisation                  | : Not classified                 |
| Germ cell mutagenicity                             | : Not classified                 |
| Carcinogenicity                                    | : Not classified                 |
| Reproductive toxicity                              | : Not classified                 |
| Specific target organ toxicity (single exposure)   | : Not classified                 |
| Specific target organ toxicity (repeated exposure) | : Not classified                 |
| Aspiration hazard                                  | : Not classified                 |
| Symptoms/injuries after eye contact                | : Causes serious eye irritation. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| Zinc alkyl dithiophosphate (68649-42-3) |                                   |
|---|-----------------------------------|
| LC50 fish 1                             | 4.4 mg/l 96 h oncorhynchus mykiss |
| EC50 Daphnia 1                          | 1.2 mg/l 48 h                     |

### 12.2. Persistence and degradability

No additional information available

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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT  
Not considered a dangerous good for transport regulations

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Zinc alkyl dithiophosphate (68649-42-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

#### Tutela F-200A Multi Season Hydraulic Oil

|                      |   |
|----------------------|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects<br>This document has been prepared in accordance with the SDS requirements of the WHMIS<br>Controlled Products Regulation |
|----------------------|---|

#### Zinc alkyl dithiophosphate (68649-42-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

### EU-Regulations

#### Zinc alkyl dithiophosphate (68649-42-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2 H319

Full text of classification categories and H statements : see section 16

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### National regulations

#### Zinc alkyl dithiophosphate (68649-42-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on Taiwan National Chemical Inventory  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Not listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

### 15.3. US State regulations

No additional information available

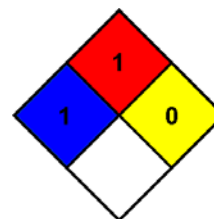
## SECTION 16: Other information

|                            |   |
|----------------------------|---|
| Indication of changes      | : Original Document.  |
| Data sources               | : ACGIH (American Conference of Government Industrial Hygienists).<br>European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <a href="http://echa.europa.eu/web/quest/information-on-chemicals/cl-inventory-database">http://echa.europa.eu/web/quest/information-on-chemicals/cl-inventory-database</a> .<br>Kriester Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.<br>National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.<br>OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at <a href="http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html">http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html</a> . |
| Abbreviations and acronyms | : ATE: Acute Toxicity Estimate.<br>CAS (Chemical Abstracts Service) number.<br>CLP: Classification, Labelling, Packaging.<br>EC50: Environmental Concentration associated with a response by 50% of the test population.<br>LD50: Lethal Dose for 50% of the test population.<br>GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).<br>OSHA: Occupational Safety & Health Administration.<br>STEL: Short Term Exposure Limits.<br>TSCA: Toxic Substances Control Act.<br>TWA: Time Weight Average.  |
| Other information          | : None.   |

### Full text of H-statements:

|                   |   |
|-------------------|---|
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Eye Dam. 1        | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2A     | Serious eye damage/eye irritation, Category 2A                    |
| H318              | Causes serious eye damage   |
| H319              | Causes serious eye irritation                                     |
| H411              | Toxic to aquatic life with long lasting effects                   |

|                    |   |
|--------------------|---|
| NFPA health hazard | : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given. |
| NFPA fire hazard   | : 1 - Must be preheated before ignition can occur.  |
| NFPA reactivity    | : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.            |



Redstone SDS US GHS CAN WHMIS for Viscosity Oil

**SDS Prepared by:** The Redstone Group, LLC  
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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*