1. Product and Company Identification

Product identifier: KLONDIKE Universal Tractor Fluid Full Synthetic
Version #: 02
Issue date: 03-20-2017
CAS #: Mixture
Product code: Universal Tractor Fluid
Product use: Hydraulic/Power Transmission Fluid
Manufacturer information: KLONDIKE Lubricants Corporation
3078 275th Street
Langley, BC V4W 3L4
Canada
info@klondikelubricants.com
www.klondikelubricants.com
General Information 1-877-293-4691
Chemtrec (Within US) 1-800-424-9300
Chemtrec (International) 1-703-527-3887
Supplier: Refer to Manufacturer

2. Hazards Identification

Emergency overview: CAUTION
May cause mild skin and eye irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential health effects

Routes of exposure: Inhalation. Ingestion. Skin contact. Eye contact.
Eyes: May cause mild eye irritation.
Skin: Skin contact: May cause mild skin irritation on prolonged contact.
Inhalation: Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Product may present an aspiration hazard, if ingested in large amounts.
Target organs: Eyes. Respiratory system. Skin.
Chronic effects: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Most important symptoms/effects, acute and delayed:
Skin: May be mildly irritating to skin, eyes and respiratory system. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms may include stinging and tearing.
Ingestion: Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Potential environmental effects: May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

The components are not hazardous or are below required disclosure limits.

4. First Aid Measures

First aid procedures

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.
Skin contact: Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
Eye contact: Flush with large amounts of water for 15 minutes. Get medical attention if irritation develops and persists.
Ingestion: Do not induce vomiting. Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention if symptoms occur.
Notes to physician
In case of shortness of breath, give oxygen. Symptoms may be delayed.

General advice
In case of shortness of breath, give oxygen. If you feel unwell, seek medical advice (show the label where possible). Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep victim under observation. Keep victim warm.

5. Fire Fighting Measures

Flammable properties
Not flammable by WHMIS criteria. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Extinguishing media
Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters
Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting equipment/instructions
Evacuate area and fight fire from a safe distance. Ventilate the contaminated area. Remove all sources of ignition. Move containers from fire area if you can do so without risk. Cool containers / tanks with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Explosion data
Sensitivity to static discharge
Not expected to be sensitive to static discharge.

Sensitivity to mechanical impact
Not expected to be sensitive to mechanical impact.

Hazardous combustion products
Carbon oxides.

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the MSDS.

Environmental precautions
Do not contaminate water.

Methods and materials for containment and cleaning up
The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Absorb spillage with non-combustible, absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Other information
Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling
Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. When using do not eat or drink. Use only outdoors or in a well-ventilated area. Do not use in areas without adequate ventilation. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wear personal protective equipment. Wash thoroughly after handling. Avoid release to the environment.

Storage
Store locked up. Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the MSDS). Keep away from food, drink and animal feedingstuffs. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits
No exposure limits noted for ingredient(s).
Biological limit values
No biological exposure limits noted for the ingredient(s).

Engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin protection
Wear appropriate chemical resistant clothing.

Respiratory protection
Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Seek advice from respiratory protection specialists.

Hand protection
Wear protective gloves. Advice should be sought from glove suppliers.

9. Physical & Chemical Properties

Appearance
Physical state
Liquid.
Form
Liquid.
Color
Amber.
Odor
Mild petroleum odor.
Odor threshold
Not available.
pH
Not available.
Vapor pressure
< 0.01 mm Hg
Vapor density
> 10
Boiling point
> 280 ºC (536 ºF)
Melting point/Freezing point
Not available.
Solubility (water)
Not Soluble
Specific gravity
0.85
Relative density
Not available.
Flash point
200.0 ºC (392 ºF)
Flammability limits in air, upper, % by volume
Not available.
Flammability limits in air, lower, % by volume
Not available.
Auto-ignition temperature
Not available.
Evaporation rate
Not available.
Viscosity
60 cSt
Percent volatile
Negligible
Partition coefficient (n-octanol/water)
Not available.

10. Chemical Stability & Reactivity Information

Chemical stability
Material is stable under normal conditions.
Conditions to avoid
Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not use in areas without adequate ventilation.
Incompatible materials
Strong oxidizing agents.
Hazardous decomposition products
None known, refer to hazardous combustion products in Section 5.
Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

11. Toxicological Information

Toxicological data
No data available.
Acute effects
May cause mild irritation to skin, eyes and respiratory system. May cause irritation of the gastrointestinal tract.
Sensitization  
Not expected to be a skin or respiratory sensitizer.

Chronic effects  
Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Carcinogenicity  
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Skin corrosion/irritation  
May be irritating to the skin.

Serious eye damage/irritation  
May be irritating to eyes.

Mutagenicity  
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive effects  
This product is not expected to cause reproductive or developmental effects.

Teratogenicity  
This product is not expected to be a teratogen.

Most important symptoms/effects, acute and delayed  
May be mildly irritating to skin, eyes and respiratory system. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms may include stinging and tearing. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Synergistic materials  
Not applicable.

12. Ecological Information

Ecotoxicological data  
No ecotoxicity data noted for the ingredient(s).

Ecotoxicity  
Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects  
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Aquatic toxicity  
Not available.

Mobility in environmental media  
The product is immiscible with water and will spread on the water surface.

13. Disposal Considerations

Disposal instructions  
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

Waste from residues / unused products  
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging  
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

TDG  
Not regulated as dangerous goods.

IATA  
Not regulated as dangerous goods.

IMDG  
Not regulated as dangerous goods.

15. Regulatory Information

Canadian regulations  
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status  
Non-controlled

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
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<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
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<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
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<tr>
<td>Country(s) or region</td>
<td>Inventory name</td>
<td>On inventory (yes/no)*</td>
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<tr>
<td>---------------------------</td>
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<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
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<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
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<td>Existing Chemicals List (ECL)</td>
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<td>New Zealand Inventory</td>
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<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
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<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

HMIS® ratings
- Health: 1
- Flammability: 1
- Physical hazard: 0

NFPA ratings
- Health: 0
- Flammability: 1
- Instability: 0

Disclaimer
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Bibliography
Not available.

Legend to abbreviations and acronyms used in the SDS
Not available.