# MATERIAL SAFETY DATA SHEET



## 1. Product and Company Identification

Product identifier KLONDIKE Universal Tractor Fluid

Version # 02

**Issue date** 03-23-2017 **CAS #** Mixture

Product code Universal Tractor Fluid

Product use Hydraulic / Power Transmission Fluid

Manufacturer information KLONDIKE Lubricants Corporation

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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 respiratory irritation. May be harmful if swallowed and enters airways. May cause mild

skin and eye irritation.

Potential health effects

**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.

**Eyes** May cause mild eye irritation.

**Skin** May cause mild skin irritation on prolonged contact.

Skin absorption: Not expected to be absorbed through the skin.

**Inhalation** May cause irritation to the nose, throat and upper respiratory tract.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an

aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause

chemical pneumonitis, which can be fatal.

**Chronic effects** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms May cause mild skin irritation. Symptoms may include redness, edema, drying, defatting and

cracking of the skin. May cause mild eye irritation. Symptoms may include stinging and tearing. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Product may present an aspiration hazard, if ingested in large amounts. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can

be fatal.

## 3. Composition / Information on Ingredients

Non-hazardous components	CAS#	Percent	
Distillates (petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	60 - 100	_
Distillates (petroleum), Hydrotreated Light Paraffinic	64742-55-8	60 - 100	_

#### 4. First Aid Measures

First aid procedures

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

Call a physician or poison control center immediately. Never give anything by mouth to a victim Ingestion

who is unconscious or is having convulsions. Do not induce vomiting. If vomiting occurs, keep

head low so that stomach content doesn't get into the lungs.

If you feel unwell, seek medical advice (show the label where possible). General advice

# 5. Fire Fighting Measures

Flammable properties Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal

pressure. Vapors are heavier than air and may spread along floors. Vapors may travel

considerable distance to a source of ignition and flash back.

**Extinguishing media** 

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

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

Fire fighting equipment/instructions Ventilate the contaminated area. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. 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. Sulphur oxides. Phosphorus oxides. Nitrogen oxides (NOx). Hydrocarbons.

#### 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or

flames in immediate area). Use only non-sparking tools. Avoid inhalation of vapors and spray mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages

cannot be contained. For personal protection, see section 8 of the MSDS.

Methods for containment Methods for cleaning up

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

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 in vermiculite, dry sand or earth and place into containers. 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.

# 7. Handling and Storage

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect Handling

material from direct sunlight. Do not ingest. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Use only outdoors or in a well-ventilated area. Wear

appropriate personal protective equipment. Observe good industrial hygiene practices. Handle and

open container with care.

Store locked up. Keep away from heat, sparks and open flame. Store in original tightly closed Storage

container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10

of the MSDS).

## 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Distillates (petroleum),	PEL	5 mg/m3	Mist.

Hydrotreated Light Paraffinic (CAS 64742-55-8)

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

**Engineering controls** If exposure limits have not been established, maintain airborne levels to an acceptable level.

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes

that may be generated during handling or thermal processing.

Personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended. Provide an emergency eye

wash fountain and quick drench shower in the immediate work area.

**Skin protection** Wear suitable protective clothing as protection against splashing or contamination.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Seek advice from respiratory protection

specialists.

**Hand protection** Wear appropriate chemical resistant gloves. Advice should be sought from glove suppliers.

## 9. Physical & Chemical Properties

**Appearance** 

Physical stateLiquid.FormLiquid.ColorDark amber.

Odor Mild petroleum odor.

Odor threshold Not available.

PH Not available.

Vapor pressure < 0.5 kPa

Vapor density > 10

Boiling point> 280 °C (536 °F)Melting point/Freezing pointNot available.Solubility (water)InsolubleSpecific gravity0.87

Relative densityNot available.Flash point216.0 °C (420.8 °F)

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

Not available.

Auto-ignition temperatureNot available.Evaporation rateNot available.

Viscosity 53 cSt

Percent volatile Negligible

Partition coefficient Not available.

(n-octanol/water)

# 10. Chemical Stability & Reactivity Information

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**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

Carbon oxides. Phosphorus oxides. Sulfur oxides. Nitrogen oxides (NOx). Hydrocarbons.

Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

## 11. Toxicological Information

Toxicological data

LD50

i oxicological data		
Components	Species	Test Results
Distillates (petroleum), I	Hydrotreated Heavy Paraffinic (CAS 647	42-54-7)
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Inhalation		
LC50	Rat	> 5 mg/l, 4 Hours (Mist)
Oral		
LD50	Rat	> 15000 mg/kg
Distillates (petroleum), I	Hydrotreated Light Paraffinic (CAS 6474	2-55-8)
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Inhalation		
LC50	Rat	> 4000 mg/m3, 4 hours
Oral		

**Acute effects** May cause irritation of the gastrointestinal tract. May cause respiratory irritation. Product may

present an aspiration hazard, if ingested in large amounts. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

> 2000 mg/kg

**Sensitization** Not expected to be a respiratory sensitizer. Not expected to be a skin sensitizer.

**Chronic effects** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

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** Direct contact may cause very mild, temporary irritation and redness.

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.

Rat

Symptoms and target organs May cause mild skin and eye irritation. Symptoms may include redness, edema, drying, defatting

and cracking of the skin. Symptoms may include stinging and tearing. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Product may present an aspiration hazard, if ingested in large amounts. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Synergistic materials Not available.

## 12. Ecological Information

**Ecotoxicological data** 

Components		Species	Test Results
Distillates (petroleum), Hyo	drotreated Heavy P	araffinic (CAS 64742-54-7)	
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales pron	nelas) > 100 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Water flea (Daphnia magna)	10 mg/l, 21 days
Distillates (petroleum), Hyd	drotreated Light Par	raffinic (CAS 64742-55-8)	
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours

**Species** Components **Test Results** 

LC50 Fish Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Chronic

Crustacea NOEC Water flea (Daphnia magna) 10 mg/l, 21 days

Not available. **Ecotoxicity Environmental effects** Not available. **Aquatic toxicity** Not available.

Persistence and degradability Distillates, (petroleum), Hydrotreated Heavy Paraffinic is considered to be not readily

biodegradable.

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.

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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

Inventory name

## 14. Transport Information

#### **TDG**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

### 15. Regulatory Information

**WHMIS status** Non-controlled

#### International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

## 16. Other Information

United States & Puerto Rico

HMIS® ratings Health: 1

> Flammability: 1 Physical hazard: 0

On inventory (yes/no)\*

Yes

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).

NFPA ratings Health: 1

Flammability: 1
Instability: 0

**Disclaimer** 

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Legend to abbreviations and acronyms used in the SDS

Not available.