



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product identifier** KLONDIKE 2-Cycle TC-W3 Engine Oil  
**Version #** 01  
**Issue date** 05-14-2014  
**CAS #** Mixture  
**Product code** 2-Cycle TC-W3  
**Product use** 2-Cycle Engine Oil  
**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. May cause respiratory irritation.

**Potential health effects**

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

**Eyes** May cause mild eye irritation.

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

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

**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.

## 3. Composition / Information on Ingredients

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

## 4. First Aid Measures

**First aid procedures**

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

**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

**General advice** If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

## 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).

<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Fire fighting equipment/instructions</b>	Evacuate area and fight fire from a safe distance. Ventilate the contaminated area. Remove all sources of ignition. Cool containers / tanks with water spray. Move containers from fire area if you can do so without risk. Prevent fire extinguishing water from contaminating surface water or the ground water system.
<b>Explosion data</b>	
<b>Sensitivity to static discharge</b>	Not expected to be sensitive to static discharge.
<b>Sensitivity to mechanical impact</b>	Not expected to be sensitive to mechanical impact.
<b>Hazardous combustion products</b>	Hydrocarbons. Phosphorus oxides. Sulphur oxides. Nitrogen oxides (NOx). Other irritating fumes and smoke.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. For personal protection, see section 8 of the MSDS.
<b>Methods for containment</b>	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
<b>Methods for cleaning up</b>	This product is miscible in water.  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: Wipe up with absorbent material (e.g. cloth, fleece). 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

<b>Handling</b>	Use care in handling/storage.
<b>Storage</b>	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the MSDS).

## 8. Exposure Controls / Personal Protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Engineering controls</b>	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.
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	If contact is likely, safety glasses with side shields are recommended. Eye wash facilities and emergency shower must be available when handling this product.
<b>Skin protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Advice should be sought from respiratory protection specialists.
<b>Hand protection</b>	For prolonged or repeated skin contact use suitable protective gloves. Advice should be sought from glove suppliers.

## 9. Physical & Chemical Properties

<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Dyed.
<b>Odor</b>	Mild petroleum odor.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapor pressure</b>	< 0.5 mm Hg

Vapor density	> 1
Boiling point	280 °C (536°F)
Melting point/Freezing point	Not available.
Solubility (water)	Not Soluble
Specific gravity	0.86
Relative density	Not available.
Flash point	> 200.0 °C (392°F)
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.
Partition coefficient (n-octanol/water)	Not available.
Other data	
Kinematic viscosity	40 cSt

## 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. Direct sources of heat. 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

Components	Species	Test Results
Distillates, (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Inhalation</i>		
		No data in literature
<i>Oral</i>		
LD50	Rat	> 15000 mg/kg
<b>Acute effects</b>	May cause mild irritation to skin, eyes and respiratory system.	
<b>Sensitization</b>	Not expected to be a skin or respiratory sensitizer.	
<b>Chronic effects</b>	Not expected to be hazardous by WHMIS criteria. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
<b>Skin corrosion/irritation</b>	May be irritating to the skin.	
<b>Serious eye damage/irritation</b>	May be irritating to eyes.	
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Reproductive effects</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Teratogenicity</b>	This product is not expected to be a teratogen.	

<b>Symptoms and target organs</b>	May cause mild skin and eye irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. 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.
<b>Synergistic materials</b>	Not available.

## 12. Ecological Information

### Ecotoxicological data

Product	Species		Test Results
KLONDIKE 2-Cycle TC-W3 Engine Oil (CAS Mixture)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	10000 mg/l, 48 hours estimated
Fish	LC50	Fish	100 mg/l, 96 hours estimated

Components	Species		Test Results
Distillates, (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Water flea (Daphnia magna)	10 mg/l, 21 days

<b>Ecotoxicity</b>	Not available.
<b>Environmental effects</b>	Not available.
<b>Aquatic toxicity</b>	Not available.
<b>Persistence and degradability</b>	Not available.
<b>Mobility in environmental media</b>	This product is miscible in water.

## 13. Disposal Considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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

<b>TDG</b>	
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>Special precautions for user</b>	Read safety instructions, MSDS and emergency procedures before handling.
<b>IATA</b>	
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III

<b>Environmental hazards</b>	Yes
<b>ERG Code</b>	9L
<b>Special precautions for user</b>	Read safety instructions, MSDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

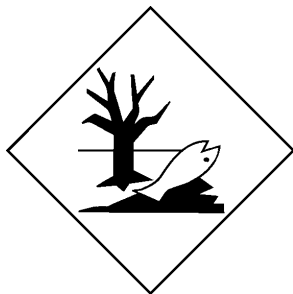
#### IMDG

<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-A, S-F
<b>Special precautions for user</b>	Read safety instructions, MSDS and emergency procedures before handling.

#### IATA; IMDG; TDG



#### Marine pollutant



## 15. Regulatory Information

<b>Canadian regulations</b>	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.
<b>WHMIS status</b>	Non-controlled

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
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

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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