



SAFETY DATA SHEET

KLONDIKE AW 100 Hydraulic Fluid

1 Identification

Product Identifier Stock Number	KLONDIKE AW 100 Hydraulic Fluid
Other means of identification Synonyms	No data available
Recommended use and restrictions on use	
Recommended use	Gear Oil
Restrictions on use	Uses other than those described above
Initial Supplier Identifier	KLONDIKE Lubricants Corporation 3078 275th Street Langley, BC, V4W 3L4 Canada
Telephone	General information 1-877-293-4691
Website	www.klondikelubricants.com
Email	info@klondikelubricants.com
Emergency phone number	Chemtrec (Within US) 1-800-424-9300 Chemtrec (International) 1-703-527-3887

2 Hazard identification

Classification of the hazardous product

Not classified under GHS

Information elements referred to in section 3 of Annex 3 of the GHS and in paragraphs 3(1)(d) to (f) of these Regulations for each of those categories or subcategories. If the required information element is a symbol, either the name of the symbol or the symbol itself may be used

Hazard statements Not applicable

Other hazards known to the supplier with respect to the hazardous product

Physical hazards not otherwise classified None known.

Health hazards not otherwise classified None known.

3 Composition/information on ingredients

Chemical Name	Common name and synonyms	CAS registry number and any unique identifiers	Concentration
Petroleum distillates, hydrotreated heavy paraffinic	No data available	64742-54-7	80 - 100

4 First-aid measures

A description of necessary first aid measures, subdivided according to the different routes of exposure (inhalation, ingestion, skin and eye contact)

Inhalation	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
Eye contact	No data available
Skin Contact	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion	No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.

The most important symptoms and effects, whether acute or delayed

None known.

An indication of immediate medical attention and special treatment needed, if necessary

No additional first aid information available.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

Unsuitable extinguishing media No data available

Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion

Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

Hazardous Combustion Products

Carbon monoxide, Smoke

Special protective equipment and precautions for firefighters

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods and materials for containment and cleaning up

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center.

7 Handling and storage

Precautions for safe handling

Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer.

Conditions for safe storage, including any incompatibilities

Conditions for safe storage

Store in a cool dry place. Isolate from incompatible materials.

Materials to Avoid/Chemical Incompatibility

Strong oxidizing agents

8 Exposure controls/personal protection

Control parameters, including occupational exposure limit values or biological limit values and the source of those values

Canada – Alberta – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada – British Columbia– Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada – Manitoba – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada – New Brunswick – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada – Newfoundland & Labrador – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada – Northwest Territories – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada – Nova Scotia – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada – Nunavut – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada – Ontario – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada – Prince Edward Island – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada – Quebec – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAEVs	Occupational Exposure Limits - STEVs	Occupational Exposure Limits - Ceiling
No data available			

Canada – Saskatchewan – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Canada - Yukon – Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
No data available			

Chemical Name	OSHA PEL	ACGIH TLV-TWA	ACGIH STEL	IDLH

No data available				
-------------------	--	--	--	--

Appropriate engineering controls	Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.
Individual protection measures, such as personal protective equipment	
Respiratory Protection	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Respirator Type(s)	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.
Eye and face protection	No data available
Skin Protection	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Hand protection	Neoprene, Nitrile
General hygiene conditions	No data available

9 Physical and chemical properties

Appearance, such as physical state and colour	
Physical state	Liquid
Colour	Beige
Odour	Mild
Odour threshold	Not determined
pH	No data available
Melting point and freezing point	
Melting point (°C)	No data available
Freezing point (°C)	No data available
Initial boiling point and boiling range (°C)	No data available
Flash point (°C)	226
Evaporation rate	No data available
Flammability, in the case of solids and gases	No data available
Upper and lower flammability or explosive limits	
Upper flammable or explosive limit, % in air	Not established
Lower flammable or explosive limit, % in air	Not established
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.88
Solubility	Negligible; 0-1%
Partition coefficient — n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available

Decomposition temperature (°C)	Not determined
Viscosity	99.86 cSt @ 40°C

10 Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None expected under standard conditions of storage.
Conditions to avoid, including static discharge, shock or vibration	Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation).
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Carbon monoxide Smoke

11 Toxicological information

Description of the various toxic health effects and the data used to identify those effects

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)	Eye contact, Ingestion, Inhalation, Skin contact
---	--

Symptoms related to the physical, chemical and toxicological characteristics	None known.
---	-------------

Delayed and immediate effects, and chronic effects from short-term and long-term exposure

Immediate effects from short term exposure

Inhalation	Likely to be practically non-toxic based on animal data.
Skin Contact	This material is likely to be moderately irritating to skin based on animal data. Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact	This material is likely to be non-irritating to eyes based on animal data.
Ingestion	No hazard in normal industrial use.

Delayed and chronic effects from long term exposure

Carcinogenicity	Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.
Reproductive and Developmental Toxicity	Not known or reported to cause reproductive or developmental toxicity.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Inhalation	Breathing oil mist in concentrations that exceed the TLV and PEL may result in respiratory discomfort and irritation. There are no known or reported effects from chronic exposure.
Skin Contact	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption	Upon prolonged or repeated exposure, no hazard in normal industrial use.
Ingestion	No hazard in normal industrial use.

STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.

Numerical measures of toxicity, including ATEs Based on available data, the classification criteria are not met.

12 Ecological information

Ecotoxicity (aquatic and terrestrial, if available) Severe ecological hazard. This product may be toxic to plants and/or wildlife.

Ecological Toxicity Data

Chemical Name	CAS registry number and any unique identifiers	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
2,6-Di-tert-butylphenol	128-39-2	Aquatic EC50 (48h) Daphnia 0.45 mg/L	No data available	No data available
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	Aquatic LC50 (48h) > 1000 mg/L	No data available	Aquatic LC50 (96h) Rainbow Trout > 5000 mg/L

Persistence and degradability Biodegrades slowly.
Bioaccumulative potential Bioconcentration may occur.
Mobility in soil This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.
Other adverse effects None known.

13 Disposal considerations

Information on safe handling for disposal and methods of disposal, including any contaminated packaging Spent or discarded material is non-hazardous according to environmental regulations.

14 Transport information

Transportation of Dangerous Goods by land (TDG)

UN number Not regulated for road transport
UN Proper shipping name Not applicable
Transport hazard class(es) Not applicable
Packing group Not applicable

International carriage of dangerous goods by sea (IMDG/IMO)

UN number Not regulated by IMDG
UN Proper shipping name Not applicable
Transport hazard class(es) Not applicable
Packing group Not applicable

International carriage of dangerous goods by air (IATA)

UN number Not regulated by IATA
UN Proper shipping name Not applicable
Transport hazard class(es) Not applicable
Packing group Not applicable

Environmental hazards according to the International Maritime Dangerous Goods Code and the United Nations Model Regulations No

Transport in bulk (according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78) and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)) No data available

Special precautions in connection with transport or conveyance either within or outside the premises No data available

15 Regulatory information

Safety, health and environmental regulations, made within or outside Canada, specific to the product in question
Canada - Domestic Substances List (DSL)

Chemical Name	CAS No	Canada - Domestic Substances List (DSL)
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	Yes

Canada - Non-Domestic Substances List (NDSL)

Chemical Name	CAS No	Canada - Non-Domestic Substances List (NDSL)
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No

Canada - Controlled Drugs and Substances

Chemical Name	CAS No	Schedule I	Schedule II	Schedule III	Schedule IV	Schedule V	Schedule VII	Schedule VIII
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No	No	No	No	No	No	No

Chemical Name	CAS No	Class A Precursors	Class B Precursors	Exempt Precursors	Class 1 Targeted Substances	Class 2 Targeted Substances
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No	No	No	No	No

paraffinic						
------------	--	--	--	--	--	--

Canada - CEPA - Schedule III Export Control List

Chemical Name	CAS No	Part 1 Prohibited Substances	Part 2 Substances Subject to Notification or Consent	Part 3 Restricted Substances	Export Control List
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No	No	No	No

Canada CEPA - 2015 Greenhouse Gases (GHG) Subject to Mandatory Reporting

Chemical Name	CAS No	Canada CEPA - 2015 Greenhouse Gases (GHG) Subject to Mandatory Reporting
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No

Canada - Narcotic Control Regulations (C.R.C., c. 1041)

Chemical Name	CAS No	Canada - Narcotic Control Regulations (C.R.C., c. 1041)
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No

Canada - Ontario - Toxics Reduction - List of Priority Toxics

Chemical Name	CAS No	Canada - Ontario - Toxics Reduction - List of Priority Toxics
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No

Stockholm Convention on Persistent Organic Pollutants

Chemical Name	CAS No	Stockholm Convention on Persistent Organic Pollutants
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade

Chemical Name	CAS No	Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No

(United Nations) - Kyoto Protocol - Convention on Climate Change - Greenhouse Gases (GHGs)

Chemical Name	CAS No	(United Nations) - Kyoto Protocol - Convention on Climate Change - Greenhouse Gases (GHGs)
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No

Montreal Protocol on Substances that Deplete the Ozone Layer

Chemical Name	CAS No	Montreal Protocol on Substances that Deplete the Ozone Layer
Petroleum distillates,	64742-54-7	No

hydrotreated heavy paraffinic		
-------------------------------	--	--

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal.

Chemical Name	CAS No	Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal.
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No

16 Other information

SDS Prepared by HAZEMS
Date of the latest revision of the safety data sheet 08-07-2019
Revision Number 13
Reason for revision Activated by Document Formulation Generation

Disclaimer The information in this document was written based on the best knowledge and experience currently available, and is offered for your consideration and guidance when exposed to this product. KLONDIKE Lubricants Corporation disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this document does not apply to use with any other product or in any other process. This document may not be changed, or altered in any way without the expressed knowledge and permission of KLONDIKE Lubricants Corporation.