



SAFETY DATA SHEET

KLONDIKE SAE 5W-40 CK-4 Full Synthetic Heavy Duty Engine Oil

1 Identification

Product Identifier Stock Number	KLONDIKE SAE 5W-40 CK-4 Full Synthetic Heavy Duty Engine Oil
Other means of identification Synonyms	No data available
Recommended use and restrictions on use	
Recommended use	Lubricants and performance fluids for the automotive industry
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

Carcinogenicity Category 1B

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

GHS Hazard
class symbols



Signal word
Hazard statements
Precautionary statements
Prevention

Danger
May cause cancer.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response
Storage
Disposal

IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container to a suitable disposal site in accordance with local/national/international regulations.

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	0.1 - 1
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	No data available	72623-87-1	5 - 10
Petroleum distillates, solvent dewaxed heavy paraffinic	No data available	64742-65-0	10 - 30
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	No data available	72623-86-0	30 - 60

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 Use eye wash to remove a chemical from the eye. Flush the affected eye for at least fifteen minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical attention if irritation persists.

Skin Contact Wash with soap and water. 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
An indication of immediate medical attention and special treatment needed, if necessary

None known.

IF exposed or concerned: Get medical advice/attention.

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, Sulfur containing gases, Nitrogen containing gases, oxides of phosphorus, Hydrogen sulfide

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

No health affects expected from the clean up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS.

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

Mildly irritating material. Avoid unnecessary exposure. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Conditions for safe storage, including any incompatibilities

Conditions for safe storage

Store in a cool dry place. Isolate from incompatible materials. Keep container closed when not in use.

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			
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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

Wear safety glasses when handling this product if there is a likelihood of contact with eyes.

Skin Protection

Where use can result in skin contact, practice good personal hygiene and wear impervious gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Hand protection

Nitrile

General hygiene conditions

Use spark-proof tools and explosion-proof equipment As with all chemicals, good industrial hygiene practices should be followed when handling this material.

9 Physical and chemical properties

Appearance, such as physical state and colour

Physical state	No data available
Colour	No data available
Odour	No data available
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)	0
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	1
Solubility	Not determined
Partition coefficient — n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	Not determined
Viscosity	No data available

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 Sulfur containing gases Nitrogen containing gases oxides of phosphorus Hydrogen sulfide

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, Skin contact, Ingestion, Inhalation

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 slightly irritating to skin based on animal data. Can cause minor skin irritation, defatting, and dermatitis.
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 minor skin irritation, defatting, and dermatitis.

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) Slight ecological hazard. In high concentrations, this product may be dangerous 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
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	Aquatic EC50 (48h) Daphnia > 1000 mg/L	No data available	Aquatic LC50 (96h) Rainbow Trout > 5000 mg/L
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	Aquatic EC50 (48h) Daphnia > 1000 mg/L	No data available	Aquatic LC50 (96h) Rainbow Trout > 5000 mg/L
Petroleum distillates, solvent dewaxed heavy	64742-65-0	Aquatic EC50 (48h) Daphnia > 1000	No data available	Aquatic LC50 (96h) Rainbow Trout >

paraffinic		mg/L		5000 mg/L
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	Aquatic EC50 (48h) Daphnia > 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 not expected to be a hazardous waste.
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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

No data available

with transport or conveyance either
within or outside the premises

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)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	Yes
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	Yes
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	Yes
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)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
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
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No	No	No	No	No	No	No

Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No	No	No	No	No	No	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No	No	No	No	No	No	No
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
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No	No	No	No	No
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No	No	No	No	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No	No	No	No	No
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No	No	No	No	No

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
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No	No	No	No
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No	No	No	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No	No	No	No
Petroleum distillates,	64742-54-7	No	No	No	No

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

Chemical Name	CAS No	Canada CEPA - 2015 Greenhouse Gases (GHG) Subject to Mandatory Reporting
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
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)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
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
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
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
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No

Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
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 .
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
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)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
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
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No

Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No
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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.
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	No
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No

16 Other information

SDS Prepared by

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Disclaimer

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