



SAFETY DATA SHEET

KLONDIKE 20W-40 Railroad Engine Oil

1 Identification

| | |
|--|--|
| Product Identifier | KLONDIKE 20W-40 Railroad Engine Oil |
| Product Code | 20W-40 Railroad |
| Other means of identification | |
| Synonyms | No data available |
| Recommended use and restrictions on use | |
| Recommended use | Motor 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, namely the appropriate category or subcategory of the hazard class identified in Subparts 2 to 19 of Part 7 or Subparts 1 to 11 of Part 8, or a name that is its substantive equivalent, or for Subpart 20 of Part 7 and Subpart 12 of Part 8, the category of the hazard class or a description of the identified hazard

Reproductive Toxicity Category 2

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 | Warning |
| Hazard statements | Suspected of damaging fertility or the unborn child. |
| Precautionary statements | |
| Prevention | Obtain special instructions before use. Do not handle until all safety |

Response
Storage
Disposal

precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
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 |
|--|--------------------------|--|---------------|
| Phenol, 4-dodecyl- | No data available | 104-43-8 | 0.1 - 1 |
| Petroleum distillates, hydrotreated heavy paraffinic | No data available | 64742-54-7 | 90 - 99 |

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

This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.

Eye contact

Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact

Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Seek medical advice if symptoms persist.

Ingestion

Do not induce vomiting and seek medical attention immediately. 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

If evacuation of stomach contents is necessary, use method least likely to cause aspiration. Aspiration during swallowing or vomiting may severely damage the lungs.

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 - | Occupational Exposure Limits - | Occupational Exposure Limits - |
|---------------|--------------------------------|--------------------------------|--------------------------------|
|---------------|--------------------------------|--------------------------------|--------------------------------|

| | TWAs | STELs | 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 - | Occupational Exposure Limits - | Occupational Exposure Limits - |
|---------------|--------------------------------|--------------------------------|--------------------------------|
| | | | |

| | TWAEVs | STEVs | 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. Facilities storing or using this material should be equipped with an eyewash and safety shower. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910.

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. Wear a NIOSH approved respirator if any exposure is possible. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator.

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 chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses. Wear goggles and a Face shield.

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. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

Hand protection

Neoprene, Nitrile

Other protective equipment

Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. Wear goggles and a Face shield.

General hygiene conditions

Wear protective gloves/protective clothing/eye protection/face protection.

9 Physical and chemical properties

Appearance, such as physical state and colour

| | |
|--|-------------------|
| Physical state | Liquid |
| Colour | Brown |
| 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) | 230 |
| 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 |
| Partition coefficient — n-octanol/water | No data available |
| Auto-ignition temperature (°C) | No data available |
| Decomposition temperature (°C) | Not determined |
| Viscosity | 136.1 |

10 Stability and reactivity

Reactivity

| | |
|---|---|
| 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 Toxicity 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 Toxicity Harmful if swallowed. May cause systemic poisoning.

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 Contains a substance that is a possible reproductive system hazard based on animal studies at doses that could be encountered in the workplace.
Mutagenicity No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Inhalation Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs").
Upon prolonged and/or repeated exposure to concentrations above permissible exposure limits, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
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 |
|-------------------|--|------------------------|---------------------|-------------------|
| No data available | | | | |

Persistence and degradability Biodegrades slowly.
Bioaccumulative potential Bioconcentration is expected to 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 | No data available |

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 |
| United Nations proper shipping name as provided for in the United Nations Model Regulations | Not applicable |
| Transport hazard class as provided in the United Nations Model Regulations | Not applicable |
| Packing group as provided in the United Nations Model Regulations | Not applicable |

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

| | |
|--|-----------------------|
| UN number | Not regulated by IMDG |
| United Nations proper shipping name as provided for in the United Nations Model Regulations | Not applicable |
| Transport hazard class as provided in the United Nations Model Regulations | Not applicable |
| Packing group as provided in the United Nations Model Regulations | Not applicable |

International carriage of dangerous goods by air (IATA)

| | |
|--|-----------------------|
| UN number | Not regulated by IATA |
| United Nations proper shipping name as provided for in the United Nations Model Regulations | Not applicable |
| Transport hazard class as provided in the United Nations Model Regulations | Not applicable |
| Packing group as provided in the United Nations Model Regulations | 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

No data available

carrying Dangerous Chemicals in Bulk (IBC Code)
 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 |
| Phenol, 4-dodecyl- | 104-43-8 | 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 |
| Phenol, 4-dodecyl- | 104-43-8 | No |

Canada - Controlled Drugs and Substances

| Chemical Name | CAS No | Sched ule I | Sched ule II | Sched ule III | Sched ule IV | Sched ule V | Sched ule VII | Sched ule VIII |
|--|------------|----------------|-----------------|------------------|-----------------|----------------|------------------|-------------------|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No | No | No | No | No | No | No |
| Phenol, 4-dodecyl- | 104-43-8 | No | No | No | No | No | No | No |

| Chemical Name | CAS No | Class A Precursors | Class B Precursors | Exempt Precursors | Class 1 Targeted Substance s | Class 2 Targeted Substance s |
|--|------------|-----------------------|-----------------------|----------------------|---------------------------------------|---------------------------------------|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No | No | No | No | No |
| Phenol, 4-dodecyl- | 104-43-8 | 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 |
|--|------------|------------------------------------|--|------------------------------------|------------------------|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No | No | No | No |

| | | | | | |
|--------------------|----------|----|----|----|----|
| Phenol, 4-dodecyl- | 104-43-8 | 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 |
| Phenol, 4-dodecyl- | 104-43-8 | 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 |
| Phenol, 4-dodecyl- | 104-43-8 | 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 |
| Phenol, 4-dodecyl- | 104-43-8 | 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 |
| Phenol, 4-dodecyl- | 104-43-8 | 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 |
| Phenol, 4-dodecyl- | 104-43-8 | 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 |
| Phenol, 4-dodecyl- | 104-43-8 | 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, hydrotreated heavy paraffinic | 64742-54-7 | No |
| Phenol, 4-dodecyl- | 104-43-8 | No |

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 |
| Phenol, 4-dodecyl- | 104-43-8 | No |

16 Other information

SDS Prepared by SGOCHENOUR
Date of the latest revision of the safety data sheet 01-09-2017
Revision Number 1
Reason for revision NEW VERSION

Disclaimer

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