

Safety Data Sheet



Date of the latest revision of the safety data sheet: 13-08-2019

Supersedes: 24-07-2019

KLONDIKE SAE 50 TDTO-4 Transmission and Drivetrain Fluid

1 Identification

Product Identifier: KLONDIKE SAE 50 TDTO-4 Transmission and Drivetrain Fluid

Stock Number:

Other means of identification: No data available

Synonyms:

Recommended use and restrictions on use: Hydraulic Oil

Recommended use: Uses other than those described above

Restrictions on use: KLONDIKE Lubricants Corporation

Initial Supplier Identifier: 3078 275th Street
Langley, BC, V4W 3L4
Canada

General information 1-877-293-4691

Tel No.: info@klondikelubricants.com

Email: Chemtrec (Within US) 1-800-424-9300 Chemtrec

Emergency telephone number and any restrictions on the use of that number, if applicable: (International) 1-703-527-3887

2 Hazard identification

Classification of the hazardous product:

Not classified under GHS

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, solvent dewaxed heavy paraffinic | No data available | 64742-65-0 | 0.1 - 1 |
| Highly refined synthetic base stocks | No data available | 64742-54-7 | 0.5 - 1.5 |
| Petroleum distillates, hydrotreated | No data available | 64742-54-7 | 30 - 60 |

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| | | | |
|--|-------------------|------------|---------|
| heavy paraffinic | | | |
| Residual oils (petroleum), solvent dewaxed | No data available | 64742-62-7 | 30 - 60 |

4 First-aid measures

| | |
|---|--|
| 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. Seek medical advice if symptoms persist. |
| 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: | 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 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, Aldehydes, oxides of phosphorus, Hydrogen sulfide, 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

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Personal precautions, protective equipment and emergency procedures:

No health effects 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.

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 | | | |

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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 | Occupational | Occupational |
|---------------|--------------|--------------|--------------|
| | | | |

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| | Exposure Limits - TWAs | Exposure Limits - STELs | 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 special requirements under normal industrial use.

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: Neoprene, Nitrile

General hygiene conditions: No data available

9 Physical and chemical properties

| | |
|--|-------------------|
| Physical state: | Liquid |
| Colour: | Brown |
| Odour: | Mild |
| Odour threshold: | Not determined |
| pH: | No data available |
| Melting point (°C): | No data available |
| Freezing point (°C): | No data available |
| Initial boiling point and boiling range (°C): | No data available |

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| | |
|--|-------------------|
| Flash point (°C): | 218 |
| Evaporation rate: | No data available |
| Flammability, in the case of solids and gases: | No data available |
| 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: | 0.89 |
| 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: | 234.8 |

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 Aldehydes oxides of phosphorus Hydrogen sulfide Smoke |

11 Toxicological information

| | |
|---|--|
| 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. |
| Immediate effects from short term exposure: | |
| Inhalation: | No hazard in normal industrial use. |
| Skin Contact: | This material is likely to be slightly irritating to skin based on animal data. Can cause minor skin irritation, defatting, and dermatitis. |

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Eye Contact: This material is likely to be non-irritating to eyes based on animal data.
Ingestion: Estimated to be > 5.0 g/kg. 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.

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.

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): Moderate ecological hazard. 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, solvent dewaxed heavy paraffinic | 64742-65-0 | Aquatic LC50 (48h) > 1000 mg/L | No data available | Aquatic LC50 (96h) Rainbow Trout > 5000 mg/L |
| Highly refined synthetic base stocks | 64742-54-7 | Aquatic EC50 (48h) Daphnia > 1000 mg/L | No data available | Aquatic LC50 (96h) Rainbow Trout > 5000 mg/L |
| 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.

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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 No data available

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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) |
|---|------------|---|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | Yes |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | Yes |
| Highly refined synthetic base stocks | 64742-54-7 | Yes |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | Yes |

Canada - Non-Domestic Substances List (NDSL):

| Chemical Name | CAS No | Canada - Non-Domestic Substances List (NDSL) |
|---|------------|--|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | No |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No |
| Highly refined synthetic base stocks | 64742-54-7 | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | No |

Canada - Controlled Drugs and Substances:

| Chemical Name | CAS No | Schedule I | Schedule II | Schedule III | Schedule IV | Schedule V | Schedule VII | Schedule VIII |
|--|------------|------------|-------------|--------------|-------------|------------|--------------|---------------|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | No | No | No | No | No | No | No |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No | No | No | No | No | No | No |
| Highly refined synthetic base stocks | 64742-54-7 | No | No | No | No | No | No | No |

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|---|------------|----|----|----|----|----|----|----|
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | 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 |
|---|------------|--------------------|--------------------|-------------------|-----------------------------|-----------------------------|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | No | No | No | No | No |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No | No | No | No | No |
| Highly refined synthetic base stocks | 64742-54-7 | No | No | No | No | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | 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 |
|---|------------|------------------------------|--|------------------------------|---------------------|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | No | No | No | No |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No | No | No | No |
| Highly refined synthetic base stocks | 64742-54-7 | No | No | No | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | No | No | No | No |

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

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| Chemical Name | CAS No | Canada CEPA - 2015 Greenhouse Gases (GHG) Subject to Mandatory Reporting |
|---|------------|--|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | No |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No |
| Highly refined synthetic base stocks | 64742-54-7 | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | No |

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

| Chemical Name | CAS No | Canada - Narcotic Control Regulations (C.R.C., c. 1041) |
|---|------------|---|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | No |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No |
| Highly refined synthetic base stocks | 64742-54-7 | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | No |

Canada - Ontario - Toxics Reduction - List of Priority Toxics:

| Chemical Name | CAS No | Canada - Ontario - Toxics Reduction - List of Priority Toxics |
|---|------------|---|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | No |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No |
| Highly refined synthetic base stocks | 64742-54-7 | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | No |

Stockholm Convention on Persistent Organic Pollutants:

| Chemical Name | CAS No | Stockholm Convention on Persistent Organic Pollutants |
|------------------------------------|------------|---|
| Residual oils (petroleum), solvent | 64742-62-7 | No |

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| | | |
|---|------------|----|
| dewaxed | | |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No |
| Highly refined synthetic base stocks | 64742-54-7 | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | 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 . |
|---|------------|--|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | No |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No |
| Highly refined synthetic base stocks | 64742-54-7 | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | 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) |
|---|------------|--|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | No |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No |
| Highly refined synthetic base stocks | 64742-54-7 | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | No |

Montreal Protocol on Substances that Deplete the Ozone Layer:

| Chemical Name | CAS No | Montreal Protocol on Substances that Deplete the Ozone Layer |
|------------------------------------|------------|--|
| Residual oils (petroleum), solvent | 64742-62-7 | No |

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| | | |
|---|------------|----|
| dewaxed | | |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No |
| Highly refined synthetic base stocks | 64742-54-7 | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | 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. |
|---|------------|--|
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | No |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | No |
| Highly refined synthetic base stocks | 64742-54-7 | No |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | No |

16 Other information

Date of the latest revision of the safety data sheet: 13-08-2019

Revision Number: 15

Reason for revision: NEW VERSION

Disclaimer: This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.