



SAFETY DATA SHEET

KLONDIKE Full Synthetic Wet Brake Fluid

1 Identification

Product Identifier	KLONDIKE Full Synthetic Wet Brake Fluid
Product Code	Full Syn Wet Brake
Other means of identification	
Synonyms	No data available
Recommended use and restrictions on use	
Recommended use	Wet Brake
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

Not classified as hazardous under WHMIS 2015

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
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	No data available	72623-86-0	1 - 5
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	No data available	72623-87-1	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

None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.

Skin Contact

Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion

Minimal risk of harm if swallowed. Do not induce vomiting. 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

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 dioxide, Carbon monoxide

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.

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 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	Nitrile, Polyvinyl chloride, Impervious rubber
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)	223
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	0.86
Solubility	Negligible; 0-1%
Partition coefficient — n-octanol/water	6
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	Not determined
Viscosity	35.17

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.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

No data available

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)

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 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 Toxicity

Although this product has a low order of acute oral toxicity, aspiration of minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

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

Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs").

Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.

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
zinc alkyl dithiophosphate	68649-42-3	48 HR EC50 DAPHNIA MAGNA 1 - 1.5 mg/L	No data available	96 HR LC50 PIMEPHALES PROMELAS 10 - 35 MG/L [SEMI- STATIC] 96 HR LC50 PIMEPHALES PROMELAS 1 - 5 MG/L [STATIC]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	> 1000 mg/L	No data available	Aquatic LC50 (96h) > 5000 mg/L
Mineral oil, white	8042-47-5	No data available	No data available	Aquatic LC50 (96h) > 10000 mg/L
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	> 1000 mg/L	No data available	Aquatic LC50 (96h) > 5000 mg/L

Persistence and degradability

No data available

Bioaccumulative potential

Bioconcentration is not 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

Not applicable

the United Nations Model Regulations
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 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)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	Yes
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	Yes

Canada - Non-Domestic Substances List (NDSL)

Chemical Name	CAS No	Canada - Non-Domestic Substances List (NDSL)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No

Canada - Controlled Drugs and Substances

Chemical Name	CAS No	Schedule I	Schedule II	Schedule III	Schedule IV	Schedule V	Schedule VII	Schedule VIII
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No	No	No	No	No	No	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	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
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No	No	No	No	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	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
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No	No	No	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-	72623-86-0	No	No	No	No

based					
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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), C20-50, hydrotreated neutral oil-based	72623-87-1	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	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), C20-50, hydrotreated neutral oil-based	72623-87-1	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No

Canada - Ontario - Toxics Reduction - List of Priority Toxics

Chemical Name	CAS No	Canada - Ontario - Toxics Reduction - List of Priority Toxics
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No

Stockholm Convention on Persistent Organic Pollutants

Chemical Name	CAS No	Stockholm Convention on Persistent Organic Pollutants
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	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 .
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	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)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	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), C20-50, hydrotreated neutral oil-based	72623-87-1	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	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.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	No
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	No

16 Other information

SDS Prepared by SGOCHENOUR
Date of the latest revision of the safety data sheet 10-25-2016
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Reason for revision NEW VERSION

Disclaimer

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