



1. Identification

Product identifier	KLONDIKE SAE 15W-40 Low Ash Natural Gas Engine Oil		
Other means of identification Product code Recommended use	15W-40 Low Ash Heavy Duty Engine Oil		
Recommended restrictions	No restrictions on use know	vn.	
Chemical family	Petroleum hydrocarbon		
Manufacturer			
	KLONDIKE Lubricants Cor 3078 275th Street Langley, BC, Canada V4W 3L4 info@klondikelubricants.co www.klondikelubricants.co General Information Chemtrec (Within US) Chemtrec (International)	m 1-877-293-4691 1-800-424-9300	
Supplier information	Refer to Manufacturer		

2. Hazard(s) Identification

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards.
Environmental hazards	Not currently regulated by Hazcom 2012 or WHMIS 2015. Consult section 12 for details.
OSHA defined hazards	No OSHA defined hazard classes.
Label elements	None required according to OSHA Hazcom 2012.
Signal Word	None.
Hazard statement(s)	The mixture does not meet the criteria for classification.
Precautionary statement(s)	
Prevention	None required.
Response	None required.
Storage	None required.
Disposal	None required.
Hazard(s) not otherwise Classified (HNOC)	Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Contact with eyes or skin may cause mild irritation.
Supplemental Information	None reported by the manufacturer.

3. Composition/information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	Concentration (%)		
Hydrotreated heavy paraffinic distillate	Hydrotreated heavy paraffinic (severely refined)	64742-54-7	80.0 - 90.0		
The % concentrations for the above listed chemicals will vary from batch to batch. Concentrations listed represent the actual concentration range for each chemical.					

4. First-aid measures

4. Thist-alu measures	
Inhalation	If breathing is difficult, trained personnel should give oxygen. If breathing stops, provide artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	For skin contact, flush with water for at least 15 minutes, while removing contaminated clothing. If skin irritation occurs, get medical advice/attention.
Eye contact	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.
Ingestion	Do NOT induce vomiting. Rinse mouth. If irritation or symptoms develop, seek medical attention.
Most important symptoms and effects, both acute and delayed Indication of any immediate medical attention and special	May be mildly irritating to skin, eyes and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Treat symptomatically.
treatment needed General Information	None reported by the manufacturer.
5. Fire-fighting measures	•
Suitable extinguishing media	Water. Water spray. Dry chemicals. Foam. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Thermal decomposition or combustion may liberate toxic gases or fumes.
Special protective equipment and precautions for fire-fighter	Firefighters should wear an approved full-face, self-contained breathing apparatus ${\bf s}$ (SCBA) and impervious clothing.
Fire-fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Avoid release to the environment.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion produc	
	Carbon oxides. Nitrogen oxides (NOx).
6. Accidental release mea	asures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	
	When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Use only with adequate ventilation. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Keep cool. Store away from incompatible materials.
 Бульковина с сиби - 1 - /н - н 	

8. Exposure controls/personal protection

Occupational exposure limits

	Туре	Value
Hydrotreated heavy paraffinic distillate		
(CAS 64742-54-7)		
	TWA	5 mg/m³ (As 'Oil mist, mineral')
JS. ACGIH Threshold Limit \	/alues	
	Туре	Value
Hydrotreated heavy paraffinic distillate	TWA	5 mg/m³ (inhalable) (severely refined mineral oils)
CAS 64742-54-7)		
Biological limit values		
	No biological expo	sure limits noted for the ingredient(s).
Appropriate engineering		ventilation, especially in confined areas.
controls		
Individual protection measures,	such as personal	protective equipment
Eye / face protection	Wear safety glass	es with side shields (or goggles).
Skin protection		
Hand protection	Chemical resistant	t gloves recommended.
Other		sistant gloves, footwear, and protective clothing appropriate for the
		Contact health or safety professional or manufacturer for specific
Respiratory protection	information.	HA approved respirator if there is a risk of exposure to dust/fume a
Respiratory protection		he exposure limits.
Thermal hazards	Not available.	
General hygiene	Always observe go	ood personal hygiene measures, such as washing after handling th
considerations	material and befor	e eating, drinking, and/or smoking. Routinely wash work clothing
		ipment to remove contaminants.
9. Physical and chemical pro	operties	
Appearance		
Physical state	Liquid.	
Form	Viscous liquid	
Color	Dark amber.	
Odor	Mild petroleum od	our.
Odor threshold	Not available.	
pH	Not available.	
Melting point /freezing point	Not available.	
Initial boiling point and boiling i	-	
	Not available.	
Flash point	>200°C	
	Cleveland closed	cup
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Lower flammability/explosive limit	Not available.	
Upper flammability/explosive limit	Not available.	
Vapour pressure	<0.01	
Vapour density	10	
Relative density	0.8756	
Solubility(ies)		

Other colubility(icc)	Not available.
Other solubility(ies) Solubility (water)	Insoluble.
Partition coefficient	Not available.
(n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive
Oxidizing properties	Not available.
Specific gravity	0.8756
Critical temperature	Not available.
VOC	Not available.
Volatilities %	Not available.
Flame projection	Not available.
length	
Flashback observed	Not available.
Absolute pressure of	Not available.
container	
Other physical/chemical data	None known or reported by the manufacturer.
DIIVSICAI/CITEITIICAI UALA	
10. Stability and reactivity	
10. Stability and reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10. Stability and reactivity	transport.
10. Stability and reactivity Reactivity Chemical stability	
10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous	transport. Stable under normal conditions.
10. Stability and reactivity Reactivity Chemical stability	transport. Stable under normal conditions. Hazardous polymerization does not occur.
10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid	transport. Stable under normal conditions.
10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous reactions	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture.
10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents
10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture.
10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).
10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx).
 10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological information 	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). on Fexposure
 10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological information Information on likely routes of 	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Dn Fexposure YES
 10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological information Information on likely routes of Routes of entry inhalation Routes of entry skin & eye 	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Son YES YES
 10. Stability and reactivity Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products 11. Toxicological information Information on likely routes of Routes of entry inhalation 	transport. Stable under normal conditions. Hazardous polymerization does not occur. High temperatures, flame, sparks, high humidity, light, water, and moisture. Oxidizing agents Carbon oxides. Nitrogen oxides (NOx). Texposure YES

absorption

Most important symptoms/effects, acute and

May be mildly irritating to skin, eyes and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

Acute toxicity

delayed

See below for toxicological data on the substance.

Components	Species	Test Results		
Hydrotreated heavy paraffinic d	istillate			
Acute Dermal				
LD50 inhalation	Rabbit	>5000 mg/kg		
LC50 Oral	Rat	>5.53 mg/L		
LD50	Rat	>15,000 mg/kg		
Skin Corrosion/Irritation	May ca	ause mild skin irritation.		
Serious eye damage/Irritat	ion May ca	May cause mild eye irritation.		
Respiratory or skin sensitization	Not ex	pected to be a skin or respiratory sensitizer.		
Germ cell mutagenicity	Not ex	Not expected to be mutagenic.		
Carcinogenicity	No cor	nponents are listed as carcinogens by ACGIH, IARC, OSHA or NTP.		
Reproductive toxicity	This pr	oduct is not expected to cause reproductive effects.		
Specific target organ toxic single exposure	ity - Not cla	ssified as a specific target organ toxicity-single exposure.		
Specific target organ toxic repeated exposure	ity - Not cla	ssified as specific target organ toxicity-repeated exposure.		
Chronic effects		ged or repeated skin contact may cause defatting and drying resulting in n and possible dermatitis.		
Aspiration toxicity	Not ex	pected to be an aspiration hazard.		
Further information	None r	eported by the manufacturer.		

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecotoxicity data:				
Ingredients	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
Hydrotreated heavy paraffinic distillate	64742-54-7	>5000 mg/L (Rainbow trout)	n/av	none
Ingredients	CAS No	Тс	oxicity to Daphnia	
ingrotionito		EC50 / 48h	NOEC / 21 day	M Factor
Hydrotreated heavy paraffinic distillate	64742-54-7	n/av	n/av	none

Ingredients	CAS No	Toxicity to Algae			
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor	
Hydrotreated heavy paraffinic distillate	64742-54-7	n/av	n/av	none	

Persistence and degradability

Not readily biodegradable.

Bioaccumulation potential Not available.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)		
Hydrotreated heavy paraffinic distillate (CAS 64742-54-7)	3.9-6	N/Av		
Mobility in soil	Not available.			
Other adverse effects				
	No other adverse environmental effects (e.g. ozor creation potential, endocrine disruption, global wa this component.			
13. Disposal consideration	n			
Disposal instructions	Collect and reclaim or dispose in sealed container	s at licensed waste disposal site.		
Local disposal regulations	Dispose in accordance with all applicable regulation	ons.		
Hazardous waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
Waste from residues / unused products	Dispose of in accordance with local regulations. E some product residues. This material and its conta manner (see: Disposal instructions).			
Contaminated packaging	Empty containers should be taken to an approved disposal.	waste handling site for recycling or		
	Since emptied containers may retain product resid container is emptied.	due, follow label warnings even after		
14. Transport information	1			
49CFR/DOT				
Not regulated as danger	ous goods			
ICAO/IATA				
Not regulated as danger	ous goods			
IMDG				

Not regulated as dangerous goods

TDG

Not regulated as dangerous goods

General informationKeep away from heat, sparks and open flame. - No smoking.Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC CodeNot established.

15. Regulatory information

US Federal Information:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory list.

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: So 372, Specific To Toxic Chemical	· ·
Hydrotreated heavy paraffinic distillate	64742-54-7	Yes	N/Ap	N/Av	No	N/Ap

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard -	NO
	Delayed Hazard -	NO
	Fire Hazard -	NO
	Pressure Hazard -	NO
	Reactivity Hazard -	NO

US state regulations

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California	State "Right to Know" Lists						
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Hydrotreated heavy paraffinic distillate	64742-54-7	No	N/Ap	No	No	No	No	No	No

Canadian Information:

Not regulated.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

International Inventories

Components listed below are present on the following International Inventory lists:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Hydrotreated heavy paraffinic distillate	64742-54-7	265-157-1	Present	Present	(2)-10; (9)-1692; (9) -1692	KE-12546	Present	No data available.

16. Other information, including date of preparation or last revision

Issue date	05/06/2016			
Version #	1			
Version # Legend	1 ACGIH: American Conference of Governmental Industrial Hygienists CA: California CAS: Chemical Abstract Services CEPA: Canadian Environmental Protection Act CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations CPR: Controlled Products Regulation CSA: Canadian Standards Association DOT: Department of Transportation DSL: Domestic Substances List EPA: Environmental Protection Agency HMIS: Hazardous Materials Identification System HPA: Hazardous Products Act HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer IATA: International Agency for Research on Cancer IATA: International Air Transport Association ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods Inh: Inhalation LC: Lethal Concentration LD: Lethal Dose MA: Massachusetts			
	MN: Minnesota			

	 N/Ap: Not Applicable N/Av: Not Available NFPA: National Fire Protection Association NIOSH: National Institute of Occupational Safety and Health NJ: New Jersey NOEC: No observable effect concentration NTP: National Toxicology Program OECD: Organisation for Economic Co-operation and Development OEL: National occupational exposure limits OSHA: Occupational Safety and Health Administration PA: Pennsylvania PEL: Permissible exposure limit PPE: Personal Protective Equipment RCRA: Resource Conservation and Recovery Act RI: Rhode Island RQ: Reportable Quantity RTECS: Registry of Toxic Effects of Chemical Substances
	SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet STEL: Short Term Exposure Limit
	TDG: Canadian Transportation of Dangerous Goods Act & Regulations TLV: Threshold Limit Values TWA: Time Weighted Average
	WEL: Workplace Exposure Limit WHMIS: Workplace Hazardous Materials Identification System
Other special considerations for	
:	Provide adequate information, instruction and training for operators.
HMIS Rating :	*- Chronic hazard0 - Minimal1 - Slight2 - Moderate3 - Serious4 - SevereHealth:0Flammability:0Reactivity:0
NFPA Rating	0 - Minimal1 - Slight2 - Moderate3 - Serious4 - SevereHealth:0Flammability:0Instability:0Special Hazards:None.
Disclaimer	The information in this document was written based on the best knowledge and experience currently available, and is offered for your consideration and guidance when exposed to this product. KLONDIKE Lubricants Corporation disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this document does not apply to use with any other product or in any other process. This document may not be changed, or altered in any way without the expressed knowledge and permission of KLONDIKE Lubricants Corporation.
Bibliography	 ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016 International Agency for Research on Cancer Monographs, searched 2016 Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2016(Chempendium, HSDB and RTECs). Material Safety Data Sheets from manufacturer. US EPA Title III List of Lists - 2016 version. California Proposition 65 List - 2016 version. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2016.