

#### 1. Identification

Product identifier KLONDIKE SAE 15W-40 Low Ash Heavy Duty Engine Oil

Other means of identification

Product code15W-40 Low AshRecommended useHeavy Duty Engine OilRecommended restrictionsNo restrictions on use known.Chemical familyPetroleum hydrocarbon

Manufacturer

KLONDIKE Lubricants Corporation

3078 275th Street Langley, BC, Canada

V4W 3L4

info@klondikelubricants.com www.klondikelubricants.com

General Information 1-877-293-4691 Chemtrec (Within US) 1-800-424-9300 Chemtrec (International) 1-703-527-3887

**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)

PreventionNone required.ResponseNone required.StorageNone required.DisposalNone required.

Hazard(s) not otherwise

Other hazards which do not result in classification: Ingestion may cause

Classified (HNOC) 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.

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#### 4. First-aid 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

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

Indication of any immediate medical attention and special

treatment needed

Treat symptomatically.

**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

Specific hazards arising from the chemical

Do not use water jet as extinguisher, as this will spread the fire.

Thermal decomposition or combustion may liberate toxic gases or fumes.

Special protective equipment

Firefighters should wear an approved full-face, self-contained breathing apparatus

and precautions for fire-fighters (SCBA) and impervious clothing.

Fire-fiahtina

Specific methods

equipment/instructions

Use water spray to cool unopened containers.

Avoid release to the environment.

**General fire hazards** No unusual fire or explosion hazards noted.

**Hazardous combustion products** 

Carbon oxides.

Nitrogen oxides (NOx).

# 6. Accidental release measures

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.

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## 8. Exposure controls/personal protection

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#### Occupational exposure limits

## U.S. OSHA Exposure Limits (29 CFR 1910)

Value

Hydrotreated heavy paraffinic distillate

(CAS 64742-54-7)

**TWA** 5 mg/m3 (As 'Oil mist, mineral')

**US. ACGIH Threshold Limit Values** 

Value Type

Hydrotreated heavy paraffinic distillate (CAS 64742-54-7)

**TWA** 

5 mg/m³ (inhalable) (severely refined mineral oils)

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye / face protection

Skin protection

Wear safety glasses with side shields (or goggles).

Hand protection Chemical resistant gloves recommended.

Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the Other

risk of exposure. Contact health or safety professional or manufacturer for specific

information.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at

levels exceeding the exposure limits.

Thermal hazards Not available.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing

and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

**Form** Viscous liquid Color Dark amber.

Odor Mild petroleum odour.

Not available. **Odor threshold** Not available. Not available. Melting point /freezing point

Initial boiling point and boiling range

Not available.

Flash point >200°C

Cleveland closed cup

Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Not available. Lower flammability/explosive

Not available.

Upper flammability/explosive

limit

Vapour pressure < 0.01 10 Vapour density Relative density 0.8756

Solubility(ies)

Other solubility(ies) Not available. Solubility (water) Insoluble. **Partition coefficient** Not available. (n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Explosive properties** Not explosive Not available. Oxidizing properties Specific gravity 0.8756

Critical temperature Not available. VOC Not available. **Volatilities %** Not available. Flame projection Not available. length

Flashback observed Absolute pressure of container

Not available.

Other physical/chemical data None known or reported by the manufacturer.

#### 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and

transport.

Not available.

**Chemical stability** 

Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

High temperatures, flame, sparks, high humidity, light, water, and moisture.

Incompatible materials

Oxidizing agents Carbon oxides.

Hazardous decomposition products

Nitrogen oxides (NOx).

#### 11. Toxicological information

#### Information on likely routes of exposure

Routes of entry inhalation YES Routes of entry skin & eye YES **Routes of entry Ingestion** YES YES Routes of exposure skin absorption

Most important

symptoms/effects, acute and

delayed

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** 

See below for toxicological data on the substance.

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Components Species Test Results

Hydrotreated heavy paraffinic distillate

**Acute** Dermal

LD50 Rabbit

inhalation

LC50 Rat >5.53 mg/L

Oral

LD50 Rat >15,000 mg/kg

Skin Corrosion/Irritation May cause mild skin irritation.

Serious eye damage/Irritation May cause mild eye irritation.

Respiratory or skin

sensitization

Not expected to be a skin or respiratory sensitizer.

**Germ cell mutagenicity** Not expected to be mutagenic.

Carcinogenicity No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive toxicity** This product is not expected to cause reproductive effects.

Specific target organ toxicity -

single exposure

Not classified as a specific target organ toxicity-single exposure.

>5000 mg/kg

Specific target organ toxicity -

repeated exposure

Not classified as specific target organ toxicity-repeated exposure.

Chronic effects Prolonged or repeated skin contact may cause defatting and drying resulting in

irritation and possible dermatitis.

**Aspiration toxicity** Not expected to be an aspiration hazard.

**Further information** None reported 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:							
In our adia mate	040 N		Toxicity to Fish				
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	Toxicity to Daphnia				
	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.

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Components	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 Other adverse effects	Not available.	
	No other adverse environmental effects (e.g. ozor creation potential, endocrine disruption, global wa this component.	

### 13. Disposal consideration

**Disposal instructions** Local disposal regulations Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Dispose in accordance with all applicable regulations.

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. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Since emptied containers may retain product residue, follow label warnings even after

container is emptied.

## 14. Transport information

#### 49CFR/DOT

Not regulated as dangerous goods

ICAO/IATA

Not regulated as dangerous goods

**IMDG** 

Not regulated as dangerous goods

**TDG** 

Not regulated as dangerous goods

**General information** 

Keep away from heat, sparks and open flame. - No smoking.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

the IBC Code

# 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)

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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:

<u>Ingredients</u>	CAS#	California Proposition 65		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

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**Legend** 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 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 handling

: Provide adequate information, instruction and training for operators.

HMIS Rating : \*- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: 0 Flammability: 0 Reactivity: 0

NFPA Rating 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: 0 Flammability:0 Instability:0 Special Hazards: None.

#### Disclaimer

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#### **Bibliography**

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- 2. International Agency for Research on Cancer Monographs, searched 2016
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2016(Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists 2016 version.
- 6. California Proposition 65 List 2016 version.
- 7. OECD The Global Portal to Information on Chemical Substances eChemPortal,2016.