

**1. Identification****Product identifier** **KLONDIKE ISO 260 Compressor Oil****Other means of identification**

<b>Product code</b>	ISO 260 Compressor
<b>Recommended use</b>	Gas Compressor Lubricant
<b>Recommended restrictions</b>	No restrictions on use known.
<b>Chemical family</b>	Petroleum hydrocarbon
<b>Manufacturer</b>	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 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**

Not required

**Hazard statement(s)**

Not required

**Precautionary statement(s)****Prevention**

None required.

**Response**

Not required

**Storage**

Not required

**Disposal**

Not 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.

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## 3. Composition/information on ingredients

### Mixture

Chemical name	Common name and synonyms	CAS number	Concentration (%)
Hydrotreated heavy paraffinic mineral oil	Hydrotreated, heavy paraffinic petroleum	64742-54-7	40.0 - 60.0
Residual oils (petroleum), solvent refined	Solvent refined residual oil	64742-01-4	40.0 - 60.0

## 4. First-aid measures

<b>Inhalation</b>	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.
<b>Skin contact</b>	For skin contact, flush with water for at least 15 minutes, while removing contaminated clothing. If skin irritation occurs, get medical advice/attention.
<b>Eye contact</b>	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.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Rinse mouth. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
<b>Most important symptoms and effects, both acute and delayed</b>	May be mildly irritating to skin, eyes and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General Information</b>	None reported by the manufacturer.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water. Water spray. Dry chemicals. Foam. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Thermal decomposition or combustion may liberate toxic gases or fumes.
<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing.
<b>Fire-fighting equipment/instructions</b>	Use water spray to cool unopened containers.
<b>Specific methods</b>	Avoid release to the environment.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ).

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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.
<b>Methods and materials for containment and cleaning up</b>	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).

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## 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.

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

	Type	Value
Hydrotreated heavy paraffinic mineral oil (CAS 64742-54-7)	TWA	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')
Residual oils (petroleum), solvent refined (CAS 64742-01-4)	TWA	5 mg/m <sup>3</sup>

#### US. ACGIH Threshold Limit Values

	Type	Value
Hydrotreated heavy paraffinic mineral oil (CAS 64742-54-7)	TWA	5 mg/m <sup>3</sup> (inhalable) (severely refined mineral oils)
Residual oils (petroleum), solvent refined (CAS 64742-01-4)	TWA	10 mg/m <sup>3</sup>

### 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

Wear safety glasses with side shields ( or goggles).

#### Skin protection

##### Hand protection

Chemical resistant gloves recommended.

##### Other

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

Amber liquid.

#### Color

amber

### Odor

Mild petroleum odour.

### Odor threshold

Not available.

### pH

Not available.

### Melting point /freezing point

Not available.

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## Initial boiling point and boiling range

	Not available.
<b>Flash point</b>	>200°C Cleveland closed cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Lower flammability/explosive limit</b>	Not available.
<b>Upper flammability/explosive limit</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	> 1 (Air = 1)
<b>Relative density</b>	0.88
<b>Solubility(ies)</b>	
<b>Other solubility(ies)</b>	Not available.
<b>Solubility (water)</b>	Insoluble.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	260
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	Not available.
<b>Specific gravity</b>	0.88
<b>Critical temperature</b>	Not available.
<b>VOC</b>	Not available.
<b>Volatilities %</b>	Nil
<b>Flame projection length</b>	Not available.
<b>Flashback observed</b>	Not available.
<b>Absolute pressure of container</b>	Not available.
<b>Other physical/chemical data</b>	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.

### 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

### Hazardous decomposition products

Carbon oxides.  
Nitrogen oxides (NO<sub>x</sub>).

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## 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

Routes of exposure skin absorption YES

### 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.

Components	Species	Test Results
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Hydrotreated heavy paraffinic mineral oil

**Acute**

*Dermal*

LD50 Rabbit > 5000 mg/kg

*Inhalation*

LC50 Rat > 5.53 mg/L (mist)

*Oral*

LD50 Rat > 15 000 mg/kg

Residual oils (petroleum), solvent refined

**Acute**

*Dermal*

LD50 Rabbit >2000 mg/kg

*Inhalation*

LC50 Rat >2180 mg/m<sup>3</sup>

*Oral*

LD50 Rat >5000 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.

**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** Aspiration hazard. May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death. Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

**Further information** None reported by the manufacturer.

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## 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	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Hydrotreated heavy paraffinic mineral oil	64742-54-7	> 5000 mg/L (Rainbow trout)	> 1000 mg/L/28-day (QSAR)	None.
Residual oils (petroleum), solvent refined	64742-01-4	: >5000 mg/L (Fathead minnow)	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Hydrotreated heavy paraffinic mineral oil	64742-54-7	> 10 000 mg/L (Daphnia magna) (Read-across)	10 mg/L	None.
Residual oils (petroleum), solvent refined	64742-01-4	>1000 mg/L Daphnia magna (Water flea)	N/Av	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Hydrotreated heavy paraffinic mineral oil	64742-54-7	N/Av	> 100 mg/L/72hr (Green algae) (Read-across)	None.
Residual oils (petroleum), solvent refined	64742-01-4	N/Av	N/Av	None.

### Persistence and degradability

Not readily biodegradable.

### Bioaccumulation potential

Not available.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Hydrotreated heavy paraffinic mineral oil (CAS 64742-54-7)	3.9 - 6	N/Av
Residual oils (petroleum), solvent refined (CAS 64742-01-4)	3.9-6	N/Av

### Mobility in soil

Not available.

### Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal consideration

### Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

### Local disposal regulations

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).

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**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

<b>49CFR/DOT</b>
<b>Not regulated as dangerous goods</b>
<b>ICAO/IATA</b>
<b>Not regulated as dangerous goods</b>
<b>IMDG</b>
<b>Not regulated as dangerous goods</b>
<b>TDG</b>
<b>Not regulated as dangerous goods</b>

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

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

## 15. Regulatory information

**US Federal Information:**      This product is not 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: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Hydrotreated heavy paraffinic mineral oil	64742-54-7	Yes	N/Ap	N/Av	No	No
Residual oils (petroleum), solvent refined	64742-01-4	Yes	N/Ap	N/Av	No	No

### 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:

<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 mineral oil	64742-54-7	No	N/Ap	No	No	No	No	No	No
Residual oils (petroleum), solvent refined	64742-01-4	No	N/Ap	No	No	No	No	No	No

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**Canadian Information:**

**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:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Hydrotreated heavy paraffinic mineral oil	64742-54-7	265-157-1	Present	Present	(2)-10; (9)-1692; (9)-1692	KE-12546	Present	May be used as a single component chemical under an appropriate group standard
Residual oils (petroleum), solvent refined	64742-01-4	265-101-6	Present	Present	No data available.	KE-30124	Present	No information available.

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

- Issue date** 07/25/2016
- Version #** 1
- 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



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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.

## 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. The information in the sheet was written based on the best knowledge and experience currently available.

## Bibliography

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
2. International Agency for Research on Cancer Monographs, searched 2016
3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb 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.