

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

### 1.1 Product identifier.

Product Name: **KLONDIKE SAE 0W-20 Full Synthetic Engine Oil**

### 1.2 Relevant identified uses of the mixture and uses advised against. Lubricant oil

#### Uses advised against:

Uses other than those recommended.

### 1.3 Details of the supplier of the safety data sheet.

Company: KLONDIKE LUBRICANTS CORPORATION  
 Address: 3078-275th Street  
 City: Aldergrove - British Colombia  
 Province: CA-ON V4W 3L4 Langley - Canada  
 Telephone: +16048565335  
 Fax: +16048565339  
 E-mail: info@klondikelubricants.com  
 Web: www.klondikelubricants.com

### 1.4 Emergency telephone number:

Chemtrec (Within US) 1-800-424-9300  
 1-Chemtrec (International) 1-703-527-3887

## SECTION 2: HAZARDS IDENTIFICATION.

### 2.1 Classification of the mixture.

The product is not classified as hazardous within the meaning of Regulation (EU) No 1272/2008.

### 2.2 Label elements.

EUH statements:

EUH208 Contains Fatty acids, tall-oil, reaction products with boric acid (H3BO3) and diethanolamine. May produce an allergic reaction.  
 EUH210 Safety data sheet available on request.

### 2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

### 3.1 Substances.

Not Applicable.

### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit

CAS No: 64742-54-7 EC No: 265-157-1	[1] A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons with a number of carbonosen mostly in the range of C20 through C50 and produces a finished oil of at least 19cSt at 40 ° C ( 100 US at 100 ° F). It contains a relatively large proportion of saturated hydrocarbons. PCA content in the extract in DMSO is less than 3 % ( IP -346 ) .	10 - 49.99 %	Asp. Tox. 1, H304	-
CAS No: 64741-88-4	[1] Petroleum distillates, paraffinic solvent dewaxed . A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization . It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 . PCA content in the extract in DMSO is less than 3 % ( IP 346 ) .	2.5 - 9.99 %	Asp. Tox. 1, H304	-

(\* ) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[1] Substance with a Community workplace exposure limit (see section 8.1).

## SECTION 4: FIRST AID MEASURES.

### 4.1 Description of first aid measures.

Due to the composition and type of the substances present in the product, no particular warnings are necessary.

#### Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

#### Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

#### Skin contact.

Remove contaminated clothing.

#### Ingestion.

Keep calm. NEVER induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed.

No known acute or delayed effects from exposure to the product.

### 4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

## SECTION 5: FIREFIGHTING MEASURES.

### 5.1 Extinguishing media.

#### Suitable extinguishing media:

Extinguisher powder or CO<sub>2</sub>. In case of more serious fires, also alcohol-resistant foam and water spray.

#### Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

### 5.2 Special hazards arising from the mixture.

**Special risks.**

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

**5.3 Advice for firefighters.**

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account.

**Fire protection equipment.**

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

**SECTION 6: ACCIDENTAL RELEASE MEASURES.**

**6.1 Personal precautions, protective equipment and emergency procedures.**

For exposure control and individual protection measures, see section 8.

**6.2 Environmental precautions.**

Product not classified as hazardous for the environment, avoid spillage as much as possible.

**6.3 Methods and material for containment and cleaning up.**

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

**6.4 Reference to other sections.**

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

**SECTION 7: HANDLING AND STORAGE.**

**7.1 Precautions for safe handling.**

The product does not require special handling measures, the following general measures are recommended:

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

**7.2 Conditions for safe storage, including any incompatibilities.**

The product does not require special storage measures.

As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided.

Keep away from oxidising agents and from highly acidic or alkaline materials.

Store the containers between 5 and 35° C, in a dry and well-ventilated place.

Store according to local legislation. Observe indications on the label.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

Code	Description	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
P5b	FLAMMABLE LIQUIDS	50	200

**7.3 Specific end use(s).**

Aceite lubricante para motores de automoción.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.**

## 8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m <sup>3</sup>
A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons with a number of carbonosen mostly in the range of C20 through C50 and produces a finished oil of at least 19cSt at 40 ° C ( 100 US at 100 ° F). It contains a relatively large proportion of saturated hydrocarbons. PCA content in the extract in DMSO is less than 3 % ( IP -346 ) .	64742-54-7	España [1]	<b>Eight hours</b>		5
			<b>Short term</b>		10
		United States [2] (NIOSH)	<b>Eight hours</b>		5 (TLV-TWA) - ACGIH
			<b>Short term</b>		
Petroleum distillates, paraffinic solvent dewaxed . A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization . It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 . PCA content in the extract in DMSO is less than 3 % ( IP 346 ) .	64741-88-4	España [1]	<b>Eight hours</b>		INSHT (España) 5 mg/m <sup>3</sup>
			<b>Short term</b>		INSHT (España) 10 mg/m <sup>3</sup>

[1] Según la lista de Valores Límite Ambientales de Exposición Profesional adoptados por el Instituto Nacional de Seguridad y Salud en el Trabajo (INSST) para el año 2018.




[2] National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.

The product does NOT contain substances with Biological Limit Values.

## 8.2 Exposure controls.

### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

<b>Concentration:</b>	<b>100 %</b>	
<b>Uses:</b>	<b>Lubricant oil</b>	
<b>Breathing protection:</b>		
If the recommended technical measures are observed, no individual protection equipment is necessary.		
<b>Hand protection:</b>		
If the product is handled correctly, no individual protection equipment is necessary.		
<b>Eye protection:</b>		
PPE:	Face shield.	
Characteristics:	«CE» marking, category II. Face and eye protector against splashing liquid.	
CEN standards:	EN 165, EN 166, EN 167, EN 168	
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions. Make sure that mobile parts move smoothly.	
Observations:	Face shields should offer a field of vision with a dimension in the central line of, at least, 150 mm vertically once attached to the frame.	
<b>Skin protection:</b>		
PPE:	Anti-static protective clothing.	
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.	
CEN standards:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5	
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.	
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.	
PPE:	Anti-static safety footwear.	

Characteristics:	«CE» marking, category II.
CEN standards:	EN ISO 13287, EN ISO 20344, EN ISO 20346
Maintenance:	The footwear should be checked regularly
Observations:	The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

### 9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour  
 Colour: Azul transparente  
 Odour: Característico  
 Odour threshold: N.A./N.A.  
 pH: 7,0 (20°C)  
 Melting point: N.A./N.A.  
 Boiling Point: N.A./N.A.  
 Flash point: N.A./N.A.  
 Evaporation rate: N.A./N.A.  
 Inflammability (solid, gas): N.A./N.A.  
 Lower Explosive Limit: N.A./N.A.  
 Upper Explosive Limit: N.A./N.A.  
 Vapour pressure: N.A./N.A.  
 Vapour density: N.A./N.A.  
 Relative density: 0.995  
 Solubility: Totalmente soluble en agua  
 Liposolubility: N.A./N.A.  
 Hydrosolubility: Soluble  
 Partition coefficient (n-octanol/water): N.A./N.A.  
 Auto-ignition temperature: N.A./N.A.  
 Decomposition temperature: N.A./N.A.  
 Viscosity: <6200@-35°C  
 Explosive properties: N.A./N.A.  
 Oxidizing properties: N.A./N.A.  
 N.A./N.A.= Not Available/Not Applicable due to the nature of the product

### 9.2 Other information.

Dropping point: N.A./N.A.  
 Blink: N.A./N.A.  
 Kinematic viscosity: 5.6/9.3@100°C  
 N.A./N.A.= Not Available/Not Applicable due to the nature of the product

## SECTION 10: STABILITY AND REACTIVITY.

### 10.1 Reactivity.

The product does not present hazards by their reactivity.

### 10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

### 10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

### 10.4 Conditions to avoid.

Avoid any improper handling.

### 10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

### 10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

## **SECTION 11: TOXICOLOGICAL INFORMATION.**

### **11.1 Information on toxicological effects.**

There are no tested data available on the product.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

a) acute toxicity;

Not conclusive data for classification.

b) skin corrosion/irritation;

Not conclusive data for classification.

c) serious eye damage/irritation;

Not conclusive data for classification.

d) respiratory or skin sensitisation;

Not conclusive data for classification.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Not conclusive data for classification.

i) STOT-repeated exposure;

Not conclusive data for classification.

j) aspiration hazard;

Based on available data, the classification criteria are not met.

## **SECTION 12: ECOLOGICAL INFORMATION.**

### **12.1 Toxicity.**

No information is available regarding the ecotoxicity of the substances present.

### **12.2 Persistence and degradability.**

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present. No information is available about persistence and degradability of the product.

### **12.3 Bioaccumulative potential.**

No information is available regarding the bioaccumulation of the substances present.

### **12.4 Mobility in soil.**

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

### **12.5 Results of PBT and vPvB assessment.**

No information is available about the results of PBT and vPvB assessment of the product.

**12.6 Other adverse effects.**

No information is available about other adverse effects for the environment.

**SECTION 13 DISPOSAL CONSIDERATIONS.****13.1 Waste treatment methods.**

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

**SECTION 14: TRANSPORT INFORMATION.**

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

**14.1 UN number.**

Transportation is not dangerous.

**14.2 UN proper shipping name.**

Description:

ADR: Transportation is not dangerous.

IMDG: Transportation is not dangerous.

ICAO/IATA: Transportation is not dangerous.

**14.3 Transport hazard class(es).**

Transportation is not dangerous.

**14.4 Packing group.**

Transportation is not dangerous.

**14.5 Environmental hazards.**

Transportation is not dangerous.

**14.6 Special precautions for user.**

,Transportation is not dangerous.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.**

Transportation is not dangerous.

**SECTION 15: REGULATORY INFORMATION.****15.1 Safety, health and environmental regulations/legislation specific for the mixture.**

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): P5b

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

**15.2 Chemical safety assessment.**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**SECTION 16: OTHER INFORMATION.**

Complete text of the H phrases that appear in section 3:

H304 May be fatal if swallowed and enters airways.

Classification codes:

Asp. Tox. 1 : Aspiration toxicity, Category 1

Changes regarding to the previous version:

- Modification in the values of the physical and chemical properties (SECTION 9).

It is recommended that the product only be employed for the purposes advised.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
64742-54-7	A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons with a number of carbonosen mostly in the range of C20 through C50 and produces a finished oil of at least 19cSt at 40 ° C ( 100 US at 100 ° F). It contains a relatively large proportion of saturated hydrocarbons. PCA content in the extract in DMSO is less than 3 % ( IP -346 ) .	Registered8
64741-88-4	Petroleum distillates, paraffinic solvent dewaxed . A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization . It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 . PCA content in the extract in DMSO is less than 3 % ( IP 346 ) .	Registered8

Abbreviations and acronyms used:

CEN: European Committee for Standardization.

PPE: Personal protection equipment.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.