

## 1. Identification

**Product identifier** KLONDIKE SAE 5W-30 Low SAPS Full Synthetic Engine Oil

### Other means of identification

**Product code** SAE 5W-30 Low SAPS Full Synthetic

**Recommended use** Engine Oil

### Recommended restrictions

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name** KLONDIKE Lubricants Corporation  
**Address** 3078 275th Street  
Langley, BC V4W 3L4  
Canada  
**Telephone** General Information 1-877-293-4691  
**Website** www.klondikelubricants.com  
**E-mail** info@klondikelubricants.com  
**Emergency phone number** Chemtrec (Within US) 1-800-424-9300  
Chemtrec (International) 1-703-527-3887

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer

Use of the substance/mixture use : Engine oil

1.2.2. Uses advised against No additional information available

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Synthetic Base Oils

| Name   | Product identifier  | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|----------|---|
| Synthetic Base Oil   | (CAS-No.) 72623-86-0<br>(EC-No.) 276-737-9<br>(EC Index-No.) 649-482-00-X<br>(REACH-no) 01-2119474878-16  | < 50     | Asp. Tox. 1, H304   |
| Synthetic Base Oil   | (CAS-No.) 64742-54-7<br>(EC-No.) 265-157-1<br>(EC Index-No.) 649-467-00-8<br>(REACH-no) 01-2119484627-25  | < 50     | Asp. Tox. 1, H304   |
| Mineral oil *  |   | 2,5 - 10 | Asp. Tox. 1, H304   |
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4- hydroxyphenyl)propionate | (CAS-No.) 125643-61-0<br>(EC-No.) 406-040-9<br>(EC Index-No.) 607-530-00-7<br>(REACH-no) 01-0000015551-76 | 1 - 5    | Aquatic Chronic 4, H413   |

Comments : \* contains one or more of the following CAS-numbers (REACH registration numbers): 64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30), 64741-95-3 (01-2119487081-40), 64741-96-4 (01-2119483621-38), 64741-97-5 (01-2119480374-36), 64742-01-4 (01-2119488707-21), 64742-52-5 (01-2119467170-45), 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-57-0 (01-2119489287-22), 64742-62-7 (01-2119480472-38), 64742-65-0 (01-2119471299-27), 64742-71-8 (01-2119485040-48), 72623-85-9 (01-2119555262-43), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 74869-22-0 (01-2119495601-36)

The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). :  
 First-aid measures after inhalation First-aid : Remove person to fresh air and keep comfortable for breathing.  
 aid measures after skin contact First-aid : Wash skin with plenty of water.  
 measures after eye contact First-aid : Rinse eyes with water as a precaution.  
 measures after ingestion : Call a poison center or a doctor if you feel unwell. Do not induce vomiting.

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

Symptoms/effects : No additional information available. Not expected to present a significant hazard under anticipated conditions of normal use.  
 Symptoms/effects after ingestion : May result in aspiration into the lungs, causing chemical pneumonia.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon  
 Unsuitable extinguishing media dioxide. : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.  
 Hazardous decomposition products in case of fire : Toxic fumes may be released. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections For further information refer to section 13.

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep in a cool, well-ventilated place away from

Storage temperature heat. : 0 - 40 °C

7.3. Specific end use(s)

No additional information available

**SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

KLONDIKE SAE 5W-30 Low SAPS Full Synthetic Engine Oil

EU Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction).

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work

station. Materials for protective clothing:

Wear suitable protective clothing

Hand protection:

Protective gloves

| Type            | Material  | Permeation  | Thickness (mm) | Penetration | Standard |
|-----------------|---|---|----------------|-------------|----------|
| Reusable gloves | Nitrile rubber (NBR), Neoprene rubber (HNBR), Polyvinylchloride (PVC) | 4 (> 120 minutes), 5 (> 240 minutes), 6 (> 480 minutes) | >=0,35         | 3 (> 0.65)  | EN 374   |

Eye

protection:

| Use                    | Characteristics | Standard |
|------------------------|-----------------|----------|
| Safety glasses Droplet | clear           | EN 166   |

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory

equipment Personal protective equipment symbol(s):

Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical proper

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

|                                  |  |
|----------------------------------|--|
| Physical state                   | : Liquid                                       |
| Colour                           | : brown.                                       |
| Odour                            | : characteristic.                              |
| Odour threshold                  | : No data available                            |
| pH                               | : No data available                            |
| Relative evaporation rate        | : No data available                            |
| (butylacetate=1) Melting point   | : Not applicable                               |
| Freezing point                   | : -42 °C - ASTM D5950 (pour                    |
| Boiling point                    | point) : No data available                     |
| Flash point                      | : 230 °C - ASTM D92 (COC)                      |
| Auto-ignition temperature        | : No data available                            |
| Decomposition temperature        | : No data available                            |
| Flammability (solid, gas)        | : Not applicable                               |
| Vapour pressure                  | : No data                                      |
| Relative vapour density at 20 °C | available : No                                 |
| Relative density                 | data available :                               |
| Density                          | 0,854 kg/l (15 °C) - ASTM D4052                |
| Solubility                       | : Water : Practically not miscible.            |
| Log Pow                          | : No data available                            |
| Viscosity, kinematic             | : 73,1 mm <sup>2</sup> /s (40 °C) - ASTM D7279 |
| Viscosity, dynamic               | : No data available                            |
| Explosive properties             | : Presents no particular fire or explosion     |
| Oxidising properties             | hazard. : No data available                    |
| Explosive limits                 | : No data available                            |

### 9.2. Other information

VOC content : 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Reacts violently with (strong) oxidizers.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No decomposition if stored normally.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

Synthetic Base Oil

LD50 oral rat > 5000 mg/kg (OECD 401 method)

LD50 dermal rabbit > 2000 mg/kg (OECD 402 method)

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|   |  |
|---|--|
| LC50 inhalation rat (mg/l)  | > 5,53 mg/l (OECD 403 method)                        |
| Synthetic Base Oil (64742-54-7)   |  |
| LD50 oral rat   | > 5000 mg/kg (OECD 420 method)                       |
| LD50 dermal rabbit  | > 2000 mg/kg (OECD 402 method)                       |
| LC50 inhalation rat (mg/l)  | > 5,53 mg/l/4h (mg/L air, aerosol) (OECD 403 method) |
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0) |  |
| LD50 oral rat   | > 2000 mg/kg (OECD 401 method)                       |
| LD50 dermal rat   | > 2000 mg/kg (OECD 402 method)                       |
| Skin corrosion/irritation   | : Not classified                                     |
| Serious eye damage/irritation   | : Not classified                                     |
| Respiratory or skin sensitisation   | : Not classified                                     |
| Germ cell mutagenicity  | : Not classified                                     |
| Carcinogenicity   | : Not classified                                     |
| Reproductive toxicity   | : Not classified                                     |
| STOT-single exposure  | : Not classified                                     |
| STOT-repeated exposure  | : Not classified                                     |
| Aspiration hazard   | : Not classified                                     |
| KLONDIKE SAE 5W-30 Low SAPS Full Synthetic Engine Oil Viscosity, kinematic                            | 73,1 mm <sup>2</sup> /s (40 °C) - ASTM D7279         |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                          |   |
|--------------------------|---|
| Ecology - general        | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Acute aquatic toxicity   | : Not classified  |
| Chronic aquatic toxicity | : Not classified  |

#### Synthetic Base Oil (72623-86-0)

|                                |   |
|--------------------------------|---|
| LC50 fish 1                    | > 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)             |
| LC50 other aquatic organisms 1 | > 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)                |
| NOEC (acute)                   | >= 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 211 method) |
| NOEC chronic crustacea         | 10 mg/l (Daphnia magna, 21d) (OECD 211 method)                      |

#### Mineral oil \*

|                    |              |
|--------------------|--------------|
| LC50 fish 1        | > 100 mg/l   |
| EC50 Daphnia 1     | > 10000 mg/l |
| EC50 72h algae (1) | > 100 mg/l   |

#### Synthetic Base Oil (64742-54-7)

|                        |   |
|------------------------|---|
| LC50 fish 1            | > 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)             |
| EC50 Daphnia 1         | > 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)                |
| EC50 Daphnia 2         | > 10000 mg/l (Daphnia magna, 48h) (OECD 202 method)                 |
| NOEC (acute)           | >= 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method) |
| NOEC chronic fish      | >= 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox, 14/28d)          |
| NOEC chronic crustacea | 10 mg/l (Daphnia magna, 21d) (OECD 211 method)                      |

#### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

|                                |  |
|--------------------------------|--|
| LC50 fish 1                    | > 100 mg/l (Oncorhynchus mykiss, 14d) (OECD 204 method)    |
| LC50 other aquatic organisms 1 | > 74 mg/l Danio rerio (zebra fish), 96h                    |
| EC50 Daphnia 1                 | > 100 mg/l (Daphnia magna, 48h) (OECD 202 method)          |
| EC50 72h algae (1)             | > 3 mg/l (Desmodesmus subspicatus, 72h) (OECD 201 method)  |
| NOEC (acute)                   | >= 3 mg/l (Desmodesmus subspicatus, 72h) (OECD 201 method) |
| NOEC chronic fish              | >= 0,001 mg/l (Danio rerio, 36d) (OECD 210 method)         |
| NOEC chronic crustacea         | >= 1 mg/l (Daphnia magna, 21d) (OECD 211 method)           |

### 12.2. Persistence and degradability

#### Synthetic Base Oil (72623-86-0)

|                               |  |
|-------------------------------|--|
| Persistence and degradability | Not readily biodegradable.<br>EN (English) |
|-------------------------------|--|

Biodegradation 31 % (28d) (OECD 301F method)  
 Synthetic Base Oil (64742-54-7)  
 Biodegradation 31 % (28d) (OECD 301F method)  
 reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)  
 Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential

Synthetic Base Oil (72623-86-0)  
 Log Kow > 6  
 Bioaccumulative potential Bioaccumulative potential.  
 reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)  
 Bioconcentration factor (BCF REACH) 260 (Oncorhynchus mykiss, 35d) (OECD 305 method)  
 Log Pow 9,2

12.4. Mobility in soil

Synthetic Base Oil (72623-86-0)  
 Ecology - soil Insoluble in water.  
 reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)  
 Ecology - soil Product adsorbs little onto the soil.

12.5. Results of PBT and vPvB assessment

Component  
 Synthetic Base Oil, C15-30, This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
 Synthetic Base Oil (72623-86-0) This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII  
 reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
 This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Waste treatment methods : Do not allow into drains or water courses. Dispose of contents/container in accordance with licensed collector's sorting instructions.  
 Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
 European List of Waste (LoW) code : 13 02 05\* - mineral-based non-chlorinated engine, gear and lubricating oils

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR  | IMDG           | IATA           | ADN            | RID            |
|--|----------------|----------------|----------------|----------------|
| 14.1. UN number<br>Not applicable                  | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name<br>Not applicable    | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es)<br>Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group<br>Not applicable              | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards<br>Not applicable      | Not applicable | Not applicable | Not applicable | Not applicable |

No supplementary information available

14.6. Special precautions for user

- Overland transport  
 Not applicable  
 - Transport by sea  
 Not applicable

- Air transport

Not applicable

- Inland waterway

transport Not applicable

- Rail transport

Not applicable

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

Not applicable

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

3 (b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

Synthetic Base Oil\*

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 0 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:

|       |   |
|-------|---|
| ADN   | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR   | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE   | Acute Toxicity Estimate   |
| BCF   | Bioconcentration factor   |
| CLP   | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| DMEL  | Derived Minimal Effect level  |
| DNEL  | Derived-No Effect Level   |
| EC50  | Median effective concentration  |
| IARC  | International Agency for Research on Cancer   |
| IATA  | International Air Transport Association   |
| IMDG  | International Maritime Dangerous Goods  |
| LC50  | Median lethal concentration   |
| LD50  | Median lethal dose  |
| LOAEL | Lowest Observed Adverse Effect Level  |
| NOAEC | No-Observed Adverse Effect Concentration  |
| NOAEL | No-Observed Adverse Effect Level  |
| NOEC  | No-Observed Effect Concentration  |
| OECD  | Organisation for Economic Co-operation and Development  |
| PBT   | Persistent Bioaccumulative Toxic  |
| PNEC  | Predicted No-Effect Concentration   |

REACH            Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID                Regulations concerning the International Carriage of Dangerous Goods by Rail  
vPvB              Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:

|                   |   |
|-------------------|---|
| Aquatic Chronic 4 | Hazardous to the aquatic environment — Chronic Hazard, Category 4 |
| Asp. Tox. 1       | Aspiration hazard, Category 1                                     |
| H304              | May be fatal if swallowed and enters airways.                     |
| H413              | May cause long lasting harmful effects to aquatic life.           |
| EUH210            | Safety data sheet available on request.                           |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product