SAFETY DATA SHEET



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

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Synthetic Base Oil	(CAS-No.) 72623-86-0 (EC-No.) 276-737-9 (EC Index-No.) 649-482-00-X (REACH-no) 01-2119474878-16	< 50	Asp. Tox. 1, H304
Synthetic Base Oil	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index-No.) 649-467-00-8 (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 (EC-No.) 406-040-9 (EC Index-No.) 607-530-00-7 (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- 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 : Toxic

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".

62 Environmental precautions

Avoid release to the environment.

Methods and material for containment and cleaning up 6.3.

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

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

Reference to other sections For

site

further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

heat.: 0 - 40 °C Storage temperature

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

ΕU 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 EN 374

4 (> 120 minutes), 5 >=0.35 3 (> 0.65)Reusable gloves Nitrile rubber (NBR), Neoprene (> 240 minutes), 6

(> 480 minutes)

rubber (HNBR).

Polyvinylchloride

(PVC)

Eye

protection:

Use Characteristics Standard

Droplet Safety glasses 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):

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

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 : $-42 \,^{\circ}\text{C}$ - ASTM D5950 (pour Boiling point point) : No data available Flash point : $230 \,^{\circ}\text{C}$ - 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 $0,854 \text{ kg/l } (15 \,^{\circ}\text{C}) - \text{ASTM D4052}$ Solubility : Water : Practically not miscible.

Log Pow : No data available

Viscosity, kinematic : 73,1 mm²/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)

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

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 mm²/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.

EN (English)

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

Biodegradation 31 % (28d) (OECD 301F method)

Synthetic Base Oil (64742-54-7)

31 % (28d) (OECD 301F method) Biodegradation

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

Not readily biodegradable. Persistence and degradability

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, Synthetic Base Oil (72623-86-0) 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 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

Other adverse effects No additional information available

SECTION 13: Disposal considerations

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	N . ()	N . (P. 11	N . (P. 11	N. (P. 11
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard of	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No complementary information and labor				

No supplementary information available

14.6. Special precautions for user

- Overland transport Not applicable

- Transport by sea Not applicable

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

- 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

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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

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