MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Product identifier KLONDIKE SAE 0W-20 SN/GF-5 Full Synthetic Engine Oil

Version # 01

Issue date 03-27-2014 **CAS #** Mixture

Product code 0W-20 SN/GF-5 Full Syn

Product use Full Synthetic Automotive Engine Oil

Manufacturer KLONDIKE Lubricants Corporation

information 3078 275th Street

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

Supplier Refer to Manufacture

2. Hazards Identification

Emergency overview CAUTION

May cause mild skin and eye irritation. Inhalation of mist or vapor will cause irritation of mucous

membranes in nose and throat leading to coughing, choking, headache and dizziness.

Potential health effects

EyesHealth injuries are not known or expected under normal use.SkinHealth injuries are not known or expected under normal use.InhalationHealth injuries are not known or expected under normal use.IngestionHealth injuries are not known or expected under normal use.

Potential environmental effects Components of this product are hazardous to aquatic life. May cause long-term adverse effects in

the environment.

3. Composition / Information on Ingredients

Non-hazardous components	CAS#	Percent
Lubricating Oils (petroleum), C20-50, Hydrotreated Neutral Oil-based	72623-87-1	60 - 100
Other components below reportable levels		10 - 30

4. First Aid Measures

First aid procedures

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

General advice If you feel unwell, seek medical advice (show the label where possible). Show this safety data

sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing Water fog. Foam. Di

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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Unsuitable extinguishing

media

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

Fire fighting

equipment/instructions

Not available.

Explosion data

Sensitivity to static

discharge

Not sensitive.

Sensitivity to mechanical

impact

Not sensitive.

Hazardous combustion

products

Carbon oxides. Other irritating fumes and smoke.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. For personal protection, see section 8 of the MSDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment Methods for cleaning up Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Should not be released into the environment. The product is immiscible with water and will spread

on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth

and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the

MSDS.

7. Handling and Storage

Handling Avoid release to the environment.

Storage Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the MSDS).

8. Exposure Controls / Personal Protection

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

Personal protective equipment

Eye / face protection Not normally needed.

Skin protection Wear suitable protective clothing.

Respiratory protection No personal respiratory protective equipment normally required.

9. Physical & Chemical Properties

Appearance Not available.

Physical stateLiquid.FormLiquid.ColorAmber.

Odor Mild petroleum odor.

Odor threshold Not available. pH Not available.

Vapor pressure < 0.2

Vapor densityNot available.Boiling point280 °C (536°F)Melting point/Freezing pointNot available.Solubility (water)InsolubleSpecific gravity0.85

Relative density Not available.

Flash point 204.0 °C (399.2°F) Closed Cup

Flammability limits in air,

upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

Not available.

Auto-ignition temperature

Not available. **Evaporation rate** Not Available 42.3 cSt **Viscosity** 40 °C Viscosity temperature

Partition coefficient

Not available

(n-octanol/water)

Other data

Partition coefficient

Not Available

(oil/water)

10. Chemical Stability & Reactivity Information

Material is stable under normal conditions. **Chemical stability**

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Not available. Not available. Hazardous decomposition

products

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Lubricating Oils (petroleum), C20-50	, Hydrotreated Neutral Oil-based (CAS 72623-87-1)	
Acute		

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat >= 2.18 mg/l/4h

Oral

LD50 Rat > 2000 mg/kg

Acute effects

Sensitization Not expected to be a skin or respiratory sensitizer. Not expected to be hazardous by WHMIS criteria. **Chronic effects**

None known. Synergistic materials

12. Ecological Information

Ecotoxicological data

Product	Species	Test Results
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KLONDIKE SAE 0W-20 SN/GF-5 Full Synthetic Engine Oil (CAS Mixture)

Aquatic

Acute

Crustacea EC50 Daphnia 11764.7061 mg/l, 48 hours estimated Fish LC50 Fish 117.6471 mg/l, 96 hours estimated

Components **Species Test Results**

Lubricating Oils (petroleum), C20-50, Hydrotreated Neutral Oil-based (CAS 72623-87-1)

Aquatic

Acute

Crustacea EC50 > 10000 mg/l, 48 hours Water flea (Daphnia magna) Fish Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours LC50

^{*} Estimates for product may be based on additional component data not shown.

Components		Species	Test Results
Chronic			
Algae	NOEC	Green Algae (Pseudokirchneriella subcapitata)	100 mg/l, 72 hours
Crustacea	NOEC	Water flea (Daphnia magna)	10 mg/l, 21 days

^{*} Estimates for product may be based on additional component data not shown.

Components of this product are hazardous to aquatic life. **Ecotoxicity**

Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of **Environmental effects**

unprofessional handling or disposal.

Persistence and degradability Not available.

Mobility in environmental

media

The product is immiscible with water and will spread on the water surface.

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Dispose in accordance with all applicable

regulations.

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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

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

emptied.

14. Transport Information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Non-controlled

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

United States & Puerto Rico

Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 0

Flammability: 1 Instability: 0

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MSDS CANADA