MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

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

Version # 02

03-27-2017 Issue date CAS# Mixture

Product code 5W-20 SN/GF-5 Syn Blend

Product use Synthetic Blend Automotive Engine Oil Manufacturer KLONDIKE Lubricants Corporation

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Canada

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

2. Hazards Identification

Emergency overview Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause mild skin

and eve irritation.

Potential health effects

Inhalation. Ingestion. Skin contact. Eye contact. Routes of exposure

Eyes Avoid contact with eyes. May cause mild eye irritation.

Skin Avoid contact with the skin. Skin contact: May cause mild skin irritation on prolonged contact.

Skin absorption: Not expected to be absorbed through the skin.

Inhalation Prolonged inhalation may be harmful. Inhalation of vapors/fumes generated by heating this product

may cause respiratory irritation with throat discomfort, coughing or difficulty breathing. Avoid

breathing dust/fume/gas/mist/vapors/spray.

Ingestion Components of the product may be absorbed into the body by ingestion. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Do not ingest.

Target organs Eyes. Respiratory system. Skin.

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
Oil, Mineral	64742-55-8	15 - 40
Other components below reportable levels		60 - 100

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

sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS criteria.

Material name: KLONDIKE SAE 5W-20 SN/GF-5 Synthetic Blend Engine Oil MSDS CANADA 2004 Version #: 02 Issue date: 03-27-2017 1/5 Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing

media

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

Fire fighting

equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not scatter spilled material

with high pressure water streams. Cool containers / tanks with water spray.

Explosion data

Sensitivity to static

discharge

Sensitivity to mechanical

impact

Not sensitive. Not sensitive.

Hazardous combustion

products

Carbon oxides. Hydrocarbons. Nitrogen oxides (NOx). Phosphorus oxides. Sulphur oxides.

6. Accidental Release Measures

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

Environmental precautions Methods for containment

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

Methods for cleaning up Should not be released into the environment. This product is miscible in water.

> 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.

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

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 prolonged exposure. Avoid release to the environment.

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

of the MSDS).

8. Exposure Controls / Personal Protection

US. ACGIH Threshold Limit Values

Occupational exposure limits

Components	гуре	value	FOIIII
Oil, Mineral (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.

Components Value **Form** Type Oil, Mineral (CAS STEL 10 mg/m3 Mist.

64742-55-8) **TWA** 5 mg/m3 Mist.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	Form
Oil, Mineral (CAS	TWA	5 mg/m3	Inhalable fraction.
64742-55-8)			

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)				
Components	Туре	Value	Form	
Oil, Mineral (CAS 64742-55-8)	STEL	10 mg/m3	Mist.	
,	TWA	5 mg/m3	Mist.	

Material name: KLONDIKE SAE 5W-20 SN/GF-5 Synthetic Blend Engine Oil

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)				
Components	Туре	Value	Form	
Oil, Mineral (CAS 64742-55-8)	STEL	10 mg/m3	Mist.	
•	TWA	5 mg/m3	Mist.	
US. OSHA Table Z-1 Limits for	r Air Contaminants (29 CFR 1910.1	000)		
Components	Туре	Value	Form	
Oil, Mineral (CAS 64742-55-8)	PEL	5 mg/m3	Mist.	

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

Engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection Wear safety glasses with side shields (or goggles).

Skin protection Wear appropriate chemical resistant clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

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 density 10

Boiling point 280 °C (536°F)

Melting point/Freezing point Not available.

Solubility (water) Not soluble

Specific gravity 0.86

Specific gravity 0.86
Relative density 7.19

Flash point 206.0 °C (403°F)
Flammability limits in air,
upper, % by volume

206.0 °C (403°F)

Not available.

Flammability limits in air, lower, % by volume

Not available.

Auto-ignition temperatureNot available.Evaporation rateNot AvailablePartition coefficientNot available

(n-octanol/water)

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

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

Incompatible materialsNot available.Hazardous decompositionNot available.

products

11. Toxicological Information

Toxicological data

Components	Species	Test Results	
Oil, Mineral (CAS 64742-55-8)			
Acute			
Dermal			
LD50	Rabbit	> 5000 mg/kg	
Inhalation			
LC50	Rat	> 4000 mg/m3, 4 hours	
Oral			
LD50	Rat	> 2000 mg/kg	

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

Acute effects

Sensitization Not expected to be a skin or respiratory sensitizer.

Chronic effects Prolonged inhalation may be harmful. Not expected to be hazardous by WHMIS criteria.

Carcinogenicity

ACGIH Carcinogens

Oil, Mineral (CAS 64742-55-8)

A4 Not classifiable as a human carcinogen.

Synergistic materials None known.

12. Ecological Information

Ecotoxicity Components of this product are hazardous to aquatic life.

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

unprofessional handling or disposal.

Persistence and degradability

Mobility in environmental

media

This product is miscible in water.

13. Disposal Considerations

Disposal instructionsCollect 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.

Not available.

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).

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

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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) 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: 1

Flammability: 1 Instability: 0

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