



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

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| Product identifier | KLONDIKE SAE 10W-30 SN/GF-5 Synthetic Blend Engine Oil |
| Version # | 01 |
| Issue date | 03-27-2014 |
| CAS # | Mixture |
| Product code | 10W-30 SN/GF-5 Syn Blend |
| Product use | Synthetic Blend Automotive Engine Oil |
| Manufacturer information | KLONDIKE Lubricants Corporation 3078 275th Street Langley, BC V4W 3L4 Canada info@klondikelubricants.com www.klondikelubricants.com General Information 1-877-293-4691 Chemtrec (Within US) 1-800-424-9300 Chemtrec (International) 1-703-527-3887 |

2. Hazards Identification

| | |
|--|---|
| Emergency overview | CAUTION Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause mild skin and eye irritation. |
| Potential health effects | |
| Routes of exposure | Inhalation. Ingestion. Skin contact. Eye contact. |
| 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

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|-----------------------------|---|
| 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

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| Flammable properties | Not flammable by WHMIS criteria. |
| 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 | Not available. |
| Explosion data | |
| Sensitivity to static discharge | Not sensitive. |
| Sensitivity to mechanical impact | Not sensitive. |
| Hazardous combustion products | Carbon oxides. Hydrocarbons. Nitrogen oxides (NOx). Phosphorus oxides. Sulphur oxides. |

6. Accidental Release Measures

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| 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 | Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. |
| Methods for cleaning up | Should not be released into the environment. 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

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| Handling | Avoid prolonged exposure. 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

Occupational exposure limits

US. ACGIH Threshold Limit Values

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

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

| Components | Type | Value | Form |
|-------------------------------|------|----------|-------|
| Oil, Mineral (CAS 64742-55-8) | STEL | 10 mg/m3 | Mist. |
| | TWA | 5 mg/m3 | Mist. |

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

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

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components | Type | Value | Form |
|-------------------------------|------|----------|-------|
| Oil, Mineral (CAS 64742-55-8) | STEL | 10 mg/m3 | Mist. |

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components | Type | Value | Form |
|------------|------|---------------------|-------|
| | TWA | 5 mg/m ³ | Mist. |

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

| Components | Type | Value | Form |
|-------------------------------|------|----------------------|-------|
| Oil, Mineral (CAS 64742-55-8) | STEL | 10 mg/m ³ | Mist. |
| | TWA | 5 mg/m ³ | Mist. |

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|-------------------------------|------|---------------------|-------|
| Oil, Mineral (CAS 64742-55-8) | PEL | 5 mg/m ³ | 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

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|---|-------------------------------|
| Appearance | Not available. |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Amber. |
| Odor | Mild petroleum odor. |
| Odor threshold | Not available. |
| pH | Not available. |
| Vapor pressure | Not available. |
| Vapor density | 10 |
| Boiling point | 280 °C (536°F) |
| Melting point/Freezing point | Not available. |
| Solubility (water) | Not available. |
| Specific gravity | 0.86 |
| Relative density | Not available. |
| Flash point | 215.0 °C (419°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 |
| Partition coefficient (n-octanol/water) | Not available |

10. Chemical Stability & Reactivity Information

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|-------------------------------|--|
| Chemical stability | Material is stable under normal conditions. |
| Conditions to avoid | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials | Not available. |

Hazardous decomposition products Not available.

11. Toxicological Information

Toxicological data

| Components | Species | Test Results |
|-------------------------------|---------|------------------------------------|
| Oil, Mineral (CAS 64742-55-8) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | > 5000 mg/kg |
| <i>Inhalation</i> | | |
| LC50 | Rat | > 4000 mg/m ³ , 4 hours |
| <i>Oral</i> | | |
| 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. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Carcinogenicity

ACGIH Carcinogens

Oil, Mineral (CAS 64742-55-8) A4 Not classifiable as a human carcinogen.

Mutagenicity Not expected to be hazardous by WHMIS criteria.

Teratogenicity Not expected to be hazardous by WHMIS criteria.

Synergistic materials Not applicable.

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 Not available.

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).

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

Disclaimer

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