# MATERIAL SAFETY DATA SHEET



## 1. Product and Company Identification

**Product identifier** KLONDIKE Multi-Purpose Grease

Version #

Issue date 01-26-2017 CAS# Mixture Multi-Purpose Product code **Product use** Multi-Purpose

**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

**Supplier** Refer to Manufacturer

### 2. Hazards Identification

**Emergency overview** CAUTION

May cause mild skin and eye irritation. May cause respiratory irritation. Prolonged or repeated

overexposure may cause liver effects.

Potential health effects

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

**Eves** May cause mild eye irritation.

Skin May cause mild skin irritation on prolonged contact.

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

Inhalation May cause irritation to the nose, throat and upper respiratory tract.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion

**Chronic effects** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Prolonged or repeated overexposure may cause liver effects.

Most important

symptoms/effects, acute and

delayed

May be mildly irritating to skin, eyes and respiratory system. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms may include stinging and tearing. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Product may present an

aspiration hazard, if ingested in large amounts. Aspiration into the lungs during swallowing or

subsequent vomiting may cause chemical pneumonitis, which can be fatal.

## 3. Composition / Information on Ingredients

Non-hazardous components	CAS#	Percent
Distillates (petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	80 - 100
Octadecanoic Acid, 12-hydroxy-	106-14-9	7 - 13

## 4. First Aid Measures

First aid procedures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

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

Material name: KLONDIKE Multi-Purpose Grease MSDS CANADA 1/6

Call a physician or poison control center immediately. Never give anything by mouth to a victim Ingestion

who is unconscious or is having convulsions. Do not induce vomiting. If vomiting occurs, keep

head low so that stomach content doesn't get into the lungs.

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

# 5. Fire Fighting Measures

Flammable properties Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal

pressure. Vapors are heavier than air and may spread along floors. Vapors may travel

considerable distance to a source of ignition and flash back.

**Extinguishing media** 

Suitable extinguishing

media

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

Unsuitable extinguishing

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

Fire fighting

equipment/instructions

Ventilate the contaminated area. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Explosion data** 

Sensitivity to static

discharge

Not expected to be sensitive to static discharge.

Sensitivity to mechanical

impact

Not expected to be sensitive to mechanical impact.

**Hazardous combustion** 

products

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

### 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use only non-sparking tools. Avoid inhalation of vapors and spray

mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.

Methods and materials for containment and cleaning up

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: Absorb in vermiculite, dry sand or earth and place into containers. 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

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect Handling

material from direct sunlight. Do not ingest. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Handle and

open container with care.

Store locked up. Keep away from heat, sparks and open flame. Store in original tightly closed Storage

container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10

of the MSDS).

### 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

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

Components	Туре	Value	Form
Oil, Mineral (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
,	,	2000 mg/m3	
		500 ppm	
logical limit values	No biological exposure limits noted for the ingredient(s).		

**Engineering controls** If exposure limits have not been established, maintain airborne levels to an acceptable level.

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes

that may be generated during handling or thermal processing.

Personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended. Provide an emergency eye

wash fountain and quick drench shower in the immediate work area.

**Skin protection** Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Seek advice from respiratory protection

specialists.

**Hand protection** Wear appropriate chemical resistant gloves. Advice should be sought from glove suppliers.

## 9. Physical & Chemical Properties

**Appearance** 

Physical stateLiquid.FormGrease.ColorRed.

Odor Mild petroleum odor.

Odor thresholdNot available.pHNot available.Vapor pressureNot available.

Vapor density > 1

Boiling point> 300 °C (572 °F)Melting point/Freezing pointNot available.Solubility (water)InsolubleSpecific gravity0.91

Relative densityNot available.Flash point $> 200.0 \,^{\circ}\text{C} \, (392 \,^{\circ}\text{F})$ 

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.

Viscosity 220 cSt

Percent volatile Nil

Partition coefficient Not available.

(n-octanol/water)

# 10. Chemical Stability & Reactivity Information

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

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

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not use in

areas without adequate ventilation.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

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

Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

Material name: KLONDIKE Multi-Purpose Grease 2156 Version #: 02 Issue date: 01-26-2017

# 11. Toxicological Information

Toxicological data

Product Species Test Results

KLONDIKE Multi-Purpose Grease (CAS Mixture)

Acute

Dermal

Dermal

LD50 Rabbit 2222.2 mg/kg

Inhalation

LC50 Rat 5.81 mg/l, 4 hours

Oral

LD50 Rat 5263.2 mg/kg
Components Species Test Results

Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat > 5.23 mg/l, 4 hours Mist

Oral

LD50 Rat > 5000 mg/kg

Octadecanoic Acid, 12-hydroxy- (CAS 106-14-9)

**Acute** 

Dermal

LD50 Rabbit No data in literature

Inhalation

LC50 Rat No data in literature

Oral

LD50 Rat > 10000 mg/kg

Acute effects May cause irritation of the gastrointestinal tract. May cause respiratory irritation.

Sensitization Not expected to be a respiratory sensitizer. Not expected to be a skin sensitizer.

**Chronic effects** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Skin corrosion/irritation** May be irritating to the skin.

**Serious eye damage/irritation** Direct contact may cause very mild, temporary irritation and redness.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Reproductive effects**This product is not expected to cause reproductive or developmental effects.

**Teratogenicity** This product is not expected to be a teratogen.

Most important

symptoms/effects, acute and

delayed

May be mildly irritating to skin, eyes and respiratory system. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms may include stinging and tearing. Symptoms may include upper respiratory irritation, coughing, and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Product may present an aspiration hazard, if ingested in large amounts. Aspiration into the lungs during swallowing or

subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Synergistic materials None known.

12. Ecological Information

Ecotoxicological data

No ecotoxicity data noted

for the ingredient(s).

EcotoxicityNot available.Environmental effectsNot available.Aquatic toxicityNot available.

Persistence and degradability Distillates, (petroleum), Hydrotreated Heavy Paraffinic is considered to be not readily

biodegradable.

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.

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.

Inventory name

Domestic Substances List (DSL)

## 14. Transport Information

#### **TDG**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

# 15. Regulatory Information

WHMIS status Non-controlled

#### International Inventories

Australia

Canada

Country(s) or region

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

Australian Inventory of Chemical Substances (AICS)

Toxic Substances Control Act (TSCA) Inventory

## 16. Other Information

United States & Puerto Rico

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

Disclaimer The information in this document was written based on the best knowledge and experience

currently available, and is offered for your consideration and guidance when exposed to this product. KLONDIKE Lubricants Corporation disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this document does not apply to use with any other product or in any other process. This document may not be changed, or altered in any way without the expressed knowledge and permission of KLONDIKE Lubricants Corporation. The information in the sheet was written based

on the best knowledge and experience currently available.

**Bibliography** Not available.

On inventory (yes/no)\*

Yes

Yes

Yes

<sup>\*</sup>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).

Legend to abbreviations and acronyms used in the SDS

Not available.