

Safety Data Sheet



Date of the latest revision of the safety data sheet: 25-09-2019

Supersedes: 25-09-2019

KLONDIKE Type F Transmission Fluid

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name Type F Transmission Fluid

Other means of identification

Product Code(s)

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

Uses advised against All Other Uses

Details of the supplier of the safety data sheet

Manufacturer Address

KLONDIKE Lubricants Corporation

3078 275th Street

Langley, BC, V4W 3L4

Canada

General information 1-877-293-4691

info@klondikelubricants.com

Emergency telephone number

1-800-424-9300 (Within US) Chemtrec

(International) 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Label elements

EMERGENCY OVERVIEW

Appearance red **Physical state** Viscous Liquid **Odor** No information available

Hazards not otherwise classified (HNOC)

Other information

Unknown Aquatic Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Petroleum hydrocarbon mixture.

| Chemical name | CAS-No | Weight % | Trade secret |
|--|-------------|-----------|--------------|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | >75 | * |
| Petroleum distillates, hydrotreated light paraffinic | 64742-55-8 | >14 | * |
| Methacrylate copolymer | Proprietary | 0.77-1.53 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

| | |
|---------------------|---|
| Eye contact | In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. |
| Skin contact | Wash skin with soap and water. If skin irritation persists, call a physician. |
| Inhalation | Move victim to fresh air. If symptoms persist, call a physician. |
| Ingestion | Do NOT induce vomiting. If symptoms persist, call a physician. |

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemical. Foam. Water can be used to keep surrounding materials cool.

Large Fires Contact emergency personnel.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Combustible material.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). Sulfur oxides. Nitrogen oxides (NO_x).

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal protection Wear protective gloves/clothing and eye/face protection.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Soak up with inert absorbent material. Prevent product from entering drains.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep in a dry, cool and well-ventilated place. Keep out of the reach of children.

Incompatible Products Strong oxidizing and reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|--------------------------|--------------------------|--|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | IDLH: 2500 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³ |
| Petroleum distillates, hydrotreated light paraffinic 64742-55-8 | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | IDLH: 2500 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³ |

Appropriate engineering controls

Engineering Controls Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face Protection Goggles. Safety glasses.

Skin and body protection Long sleeved clothing. Protective gloves.

Respiratory protection In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-------------------------------------|--------------------------|-------------------------|--------------------------|
| Physical state | Viscous Liquid | Odor | No information available |
| Appearance | red | Odor threshold | No information available |
| Color | red | | |
| Property | Values | Remarks • Method | |
| pH | No information available | | |
| Melting point/freezing point | No information available | | |
| Boiling Point/Range | No information available | | |
| Flash point | > 148 °C / > 300 °F | (based on components) | |
| Evaporation rate | No information available | | |
| Flammability (solid, gas) | No information available | | |
| Flammability Limit in Air | | | |
| Upper flammability limit: | No information available | | |
| Lower flammability limit: | No information available | | |
| Vapor pressure | No information available | | |
| Vapor density | No information available | | |
| Specific gravity | 0.86 | | |
| Water solubility | No information available | | |

| | |
|-------------------------------------|--------------------------|
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | |
| Decomposition temperature | No information available |
| Kinematic viscosity | 30-35 @40C cSt |
| Dynamic viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |

Other information

| | |
|------------------------|--------------------------|
| Softening point | No information available |
| VOC Content | No information available |
| Density | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing and reducing agents.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|----------------------------|---|
| Product Information | No data available |
| Inhalation | Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Eye contact | Avoid contact with eyes. May cause irritation. |
| Skin contact | Repeated exposure may cause skin dryness or cracking. May be harmful in contact with skin |
| Ingestion | Do NOT taste or swallow. |

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|-------------------------------------|-------------------------|---|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | > 15 g/kg (Rat) > 24 g/kg (Rat) | > 5000 mg/kg (Rabbit) | = 2062 ppm (Rat) 4 h |
| Petroleum distillates, hydrotreated light paraffinic 64742-55-8 | > 24 g/kg (Rat) | - | = 3900 mg/m ³ (Rat) 4 h = 2062 ppm (Rat) 4 h |

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity Mineral oils are known to cause cancer because of carcinogenic components (e.g. benzene). The mineral oil in this product is highly refined and should not be considered a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--|-------|---------|-------|------|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | - | Group 1 | Known | X |
| Petroleum distillates, hydrotreated light paraffinic 64742-55-8 | - | Group 1 | Known | X |

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Aquatic Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (oral) 5089 mg/kg
ATEmix (dermal) 4163 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|--|----------------------|---|---------------------------------------|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | - | 5000: 96 h Oncorhynchus mykiss mg/L LC50 | 1000: 48 h Daphnia magna mg/L EC50 |
| Petroleum distillates, hydrotreated light paraffinic 64742-55-8 | - | 5000: 96 h Oncorhynchus mykiss mg/L LC50 | 1000: 48 h Daphnia magna mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

| | |
|----------------------|-----------------|
| TSCA | Does not comply |
| DSL/NDSL | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS | Does not comply |
| IECSC | Does not comply |
| KECL | Does not comply |
| PICCS | Does not comply |
| AICS | Does not comply |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute health hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | X | - | X |
| Petroleum distillates, hydrotreated light paraffinic 64742-55-8 | X | X | X |

U.S. EPA Label Information

EPA Pesticide registration number Not Applicable

16. OTHER INFORMATION

| | | | | |
|-------------|------------------|----------------|--------------------|---------------------------------|
| <u>NFPA</u> | Health hazards 1 | Flammability 1 | Instability 0 | Physical and Chemical Hazards - |
| <u>HMIS</u> | Health hazards 1 | Flammability 1 | Physical hazards 0 | Personal protection X |

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Revision Note
SDS sections updated 2 3 4 5 6 7 8 9 11 13 14 16

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS