

1. Identification

Product identifier KLONDIKE ENVIRO MV 32 Inherently Biodegradable Hydraulic Fluids Other means of identification

Product code

Recommended use

ENVIRO MV 32 Hydraulic Fluid **Recommended restrictions** No restrictions on use known. Chemical family Petroleum hydrocarbon

Manufacturer

KLONDIKE Lubricants Corporation

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V4W 3L4

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

1-703-527-3887

Supplier information Refer to Manufacturer

2. Hazard(s) Identification

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Physical hazards Not classified for physical hazards. **Health hazards** Not classified for health hazards.

Environmental hazards Not currently regulated by Hazcom 2012 or WHMIS 2015. Consult section 12 for

details.

No OSHA defined hazard classes. **OSHA** defined hazards

None required according to OSHA Hazcom 2012. Label elements

Signal Word

Hazard statement(s) The mixture does not meet the criteria for classification.

Precautionary statement(s)

Prevention None required. None required. Response Storage None required. Disposal None required.

Hazard(s) not otherwise

Other hazards which do not result in classification: Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Contact with eyes or skin may Classified (HNOC)

cause mild irritation.

Supplemental Information None reported by the manufacturer.

3. Composition/information on ingredients

Mixture

| Chemical name | Common name and synonyms | CAS number | Concentration (%) |
|--|--|------------|-------------------|
| Hydrotreated heavy paraffinic distillate | Hydrotreated heavy paraffinic (severely refined) | 64742-54-7 | 95.0 - 99.0 |

The % concentrations for the above listed chemicals will vary from batch to batch. Concentrations listed represent the actual concentration range for each chemical.

4. First-aid measures

Inhalation If breathing is difficult, trained personnel should give oxygen. If breathing stops,

provide artificial respiration. Call a POISON CENTER or doctor/physician if you feel

For skin contact, flush with water for at least 15 minutes, while removing contaminated Skin contact

clothing. If skin irritation occurs, get medical advice/attention.

Any material that contacts the eye should be washed out immediately with water. If Eye contact

easy to do, remove contact lenses. Get medical attention if symptoms persist.

Do NOT induce vomiting. Rinse mouth. If irritation or symptoms develop, seek medical

attention.

Most important symptoms and effects, both acute and

delayed

Ingestion

May be mildly irritating to skin, eyes and respiratory system. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special

treatment needed

Treat symptomatically.

General Information None reported by the manufacturer.

5. Fire-fighting measures

Water. Water spray. Dry chemicals. Foam. Carbon dioxide (CO2). Suitable extinguishing media

Unsuitable extinguishing

media

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

Specific hazards arising

from the chemical

Thermal decomposition or combustion may liberate toxic gases or fumes.

Special protective equipment

Firefighters should wear an approved full-face, self-contained breathing apparatus

and precautions for fire-fighters (SCBA) and impervious clothing.

Fire-fighting

Specific methods

equipment/instructions

Use water spray to cool unopened containers.

Avoid release to the environment.

General fire hazards No unusual fire or explosion hazards noted.

Hazardous combustion products

Carbon oxides.

Nitrogen oxides (NOx).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning

Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal

(see Section 13).

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage,

including any incompatibilities Keep container tightly closed. Keep cool. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

U.S. OSHA Exposure Limits (29 CFR 1910)

Type Value

Hydrotreated heavy paraffinic distillate

(CAS 64742-54-7)

TWA 5 mg/m³ (As 'Oil mist, mineral')

US. ACGIH Threshold Limit Values

Type Value

Hydrotreated heavy paraffinic distillate

(CAS 64742-54-7)

TWA 5 mg/m³ (inhalable) (severely refined mineral oils)

Biological limit values

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

Appropriate engineering

controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Chemical resistant gloves recommended.

Other Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the

risk of exposure. Contact health or safety professional or manufacturer for specific

information.

levels exceeding the exposure limits.

Thermal hazards Not available.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing

and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Viscous liquid
Color Dark amber

Odor Mild petroleum odour.

Odor threshold Not available.

pH Not available.

Melting point /freezing point Not available.

Initial boiling point and boiling range

Not available.

Flash point >200°C

Cleveland closed cup

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Lower flammability/explosive Not available.

limit

Upper flammability/explosive

limit

Not available.

Vapour pressure Not available.

Vapour density > 1 Relative density 0.87

Solubility(ies)

Not available. Other solubility(ies) Solubility (water) Insoluble. **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. 32

Viscosity

Other information

Explosive properties Not explosive Not available. Oxidizing properties

Specific gravity 0.87

Critical temperature Not available. VOC Not available. **Volatilities %** Not available. Flame projection Not available.

length

Flashback observed Absolute pressure of

container

Other

Not available. Not available.

None known or reported by the manufacturer.

physical/chemical data

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and

transport.

Chemical stability

Stable under normal conditions.

Possibility of hazardous

reactions Hazardous polymerization does not occur.

Conditions to avoid

High temperatures, flame, sparks, high humidity, light, water, and moisture.

Incompatible materials

Oxidizing agents

Hazardous decomposition

Carbon oxides.

products Nitrogen oxides (NOx).

11. Toxicological information

Information on likely routes of exposure

Routes of entry inhalation YES Routes of entry skin & eye **Routes of entry Ingestion** YES YES Routes of exposure skin

absorption

Most important symptoms/effects, acute and

May be mildly irritating to skin, eyes and respiratory system. Ingestion may cause

delayed gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

Acute toxicity

See below for toxicological data on the substance.

Components **Species Test Results**

Hydrotreated heavy paraffinic distillate

Acute

Dermal

LD50 Rabbit

inhalation

LC50

Oral

Rat

Rat >15,000 mg/kg LD50

Skin Corrosion/Irritation

Serious eye damage/Irritation Respiratory or skin

sensitization

May cause mild eye irritation.

May cause mild skin irritation.

Not expected to be a skin or respiratory sensitizer.

Germ cell mutagenicity

Not expected to be mutagenic.

Carcinogenicity No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive toxicity

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Not classified as a specific target organ toxicity-single exposure.

This product is not expected to cause reproductive effects.

>5000 mg/kg

>5.53 mg/L

Not classified as specific target organ toxicity-repeated exposure.

Prolonged or repeated skin contact may cause defatting and drying resulting in **Chronic effects**

irritation and possible dermatitis.

Aspiration toxicity Not expected to be an aspiration hazard.

Further information None reported by the manufacturer.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not **Ecotoxicity**

exclude the possibility that large or frequent spills can have a harmful or damaging

effect on the environment.

| Ecotoxicity data: | | | | | | | |
|--|------------|----------------------------|------------------|----------|--|--|--|
| | 2121 | | Toxicity to Fish | | | | |
| Ingredients | CAS No | LC50 / 96h | NOEC / 21 day | M Factor | | | |
| Hydrotreated heavy paraffinic distillate | 64742-54-7 | >5000 mg/L (Rainbow trout) | n/av | none | | | |

| Ingredients | CAS No | Tox | | |
|--|------------|------------|---------------|----------|
| | | EC50 / 48h | NOEC / 21 day | M Factor |
| Hydrotreated heavy paraffinic distillate | 64742-54-7 | n/av | n/av | none |

| Ingredients | CAS No | No Toxicity to Algae | | | | |
|--|------------|----------------------|-------------------|----------|--|--|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor | | |
| Hydrotreated heavy paraffinic distillate | 64742-54-7 | n/av | n/av | none | | |

Persistence and degradability

Not readily biodegradable.

Bioaccumulation potential

Not available.

| Components Partition coefficient n-octanol/wa | | Bioconcentration factor (BCF) |
|---|----------------|-------------------------------|
| | Kow) | |
| Hydrotreated heavy paraffinic distillate (CAS 64742-54-7) | 3.9-6 | N/Av |
| Mobility in soil | Not available. | |

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal consideration

Disposal instructions Local disposal regulations Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Dispose in accordance with all applicable regulations.

Hazardous waste code The Waste code should be assigned in discussion between the user, the producer and

the waste disposal company.

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 Contaminated packaging disposal.

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

container is emptied.

14. Transport information

49CFR/DOT

Not regulated as dangerous goods

ICAO/IATA

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

TDG

Not regulated as dangerous goods

General information Transport in bulk according to Not established.

Keep away from heat, sparks and open flame. - No smoking.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US Federal Information: This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory list.

Components listed below are present on the following U.S. Federal chemical lists:

| <u>Ingredients</u> | CAS# | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: So 372, Specific To Toxic Chemical | |
|--|------------|-------------------|---|---|--|------|
| Hydrotreated heavy paraffinic distillate | 64742-54-7 | Yes | N/Ap | N/Av | No | N/Ap |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - NO

Delayed Hazard - NO
Fire Hazard - NO
Pressure Hazard - NO
Reactivity Hazard - NO

US state regulations

The following chemicals are specifically listed by individual States:

| <u>Ingredients</u> | CAS# | California Proposition 65 | | State "Right to Know" Lists | | | | | |
|--|------------|---------------------------|------------------|-----------------------------|----|----|----|----|----|
| | | Listed | Type of Toxicity | CA | MA | MN | NJ | PA | RI |
| Hydrotreated heavy paraffinic distillate | 64742-54-7 | No | N/Ap | No | No | No | No | No | No |

Canadian Information:

Not regulated.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

International Inventories

Components listed below are present on the following International Inventory lists:

| <u>Ingredients</u> | CAS# | European EINECs | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
|--|------------|--------------------|-------------------|----------------------|--------------------------------|--------------------|----------------|--------------------|
| Hydrotreated heavy paraffinic distillate | 64742-54-7 | 265-157-1 | Present | Present | (2)-10; (9)-1692; (9) -1692 | KE-12546 | Present | No data available. |

16. Other information, including date of preparation or last revision

Issue date 04/03/2019

Version #

Legend ACGIH: American Conference of Governmental Industrial Hygienists

CA: California

CAS: Chemical Abstract Services

CEPA: Canadian Environmental Protection Act

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations CPR: Controlled Products Regulation CSA: Canadian Standards Association DOT: Department of Transportation DSL: Domestic Substances List EPA: Environmental Protection Agency

HMIS: Hazardous Materials Identification System

HPA: Hazardous Products Act

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer IATA: International Air Transport Association ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

Inh: Inhalation

LC: Lethal Concentration

LD: Lethal Dose

MA: Massachusetts MN: Minnesota N/Ap: Not Applicable N/Av: Not Available

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NJ: New Jersev

NOEC: No observable effect concentration NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit PPE: Personal Protective Equipment

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island RQ: Reportable Quantity

RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TWA: Time Weighted Average WEL: Workplace Exposure Limit

WHMIS: Workplace Hazardous Materials Identification System

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

*- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe **HMIS Rating** Reactivity: Health: Flammability:

NFPA Rating

3 - Serious 0 - Minimal 1 - Slight 2 - Moderate 4 - Severe

Instability:0 : Health: Flammability:0 Special Hazards:

Disclaimer

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Bibliography

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- 2. International Agency for Research on Cancer Monographs, searched 2017
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017(Chempendium, HSDB and RTECs).

- 4. Material Safety Data Sheets from manufacturer. 5. US EPA Title III List of Lists - 2017 version.
- 6. California Proposition 65 List 2017 version.
- 7. OECD The Global Portal to Information on Chemical Substances eChemPortal.2017.