

# **SAFETY DATA SHEET**

# 1. Identification

Product name ECOCOOL S 478

Other means of identification No data available.

Recommended use: Metalworking fluid

Restrictions on use: Industrial use only

#### Manufacturer/Importer/Distributor Information

#### Manufacturer

Canadian Distributor

Company Name: Fuchs Lubricants Co. Company Name: FUCHS LUBRICANTS CANADA LTD.

Address: 17050 Lathrop Avenue Address: 405 Dobbie Drive
Harvey, Illinois 60426 Cambridge, ON N1T 1S8

Harvey, Illinois 60426 Cambridge, ON N1T 1S8
Telephone: 708-333-8900 Telephone: 519-622-2040

Fax: 708-333-9180 Fax: 519-622-2220

Contact Person: Technical Services Department

EHS Department

Emergency telephone number: 519-622-2040 (Bus. hrs)

E-mail: sds@fuchsus.com CANUTEC 1-888-226-8832 (24 hrs)

Emergency telephone number: 708-333-8900 (Bus. hrs) 800-255-3924 (24 hrs)

# 2. Hazard(s) identification

# Hazard Classification

#### **Health Hazards**

Serious Eye Damage/Eye Irritation Category 2A

#### **Unknown toxicity - Health**

Acute toxicity, oral 3.31 %
Acute toxicity, dermal 4.01 %
Acute toxicity, inhalation, vapor 70.26 %
Acute toxicity, inhalation, dust 92.78 %

or mist

#### **Label Elements**

## **Hazard Symbol:**



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Signal Word: Warning

Hazard Statement: Causes serious eye irritation.

Precautionary Statements

**Prevention:** Wash thoroughly after handling. Wear eye protection/face protection.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Mixtures**

| Chemical Identity                                      | Common name and synonyms | CAS number | Content in percent (%)* |
|--|--------------------------|------------|-------------------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | Mineral oil,             | 64742-52-5 | 40 - 70%                |
| C14-17 Chlorinated Alkanes                             |                          | 85535-85-9 | 15 - 30%                |
| Sulfonated petroleum, sodium salt                      | Sulfonate,               | 68608-26-4 | 7 - 15%                 |
| White mineral oil                                      | White mineral oil,       | 8042-47-5  | 1 - 10%                 |
| Hexylene glycol  |                          | 107-41-5   | 0.1 - 1%                |
| Triethanolamine  |                          | 102-71-6   | 0.1 - 1%                |

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Ingestion: Rinse mouth thoroughly. Call a POISON CENTRE/doctor/ if you feel unwell.

Do NOT induce vomiting.

Inhalation: Move to fresh air. Call a POISON CENTRE/doctor/ if you feel unwell.

**Skin Contact:** Remove contaminated clothing and shoes. Wash contact areas with soap

and water. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

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#### Indication of immediate medical attention and special treatment needed

**Treatment:** Get medical attention if symptoms occur.

#### 5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or regular foam. Use fireextinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

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

Specific hazards arising from

the chemical:

Heat may cause the containers to explode. During fire, gases hazardous to

health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Ensure adequate

ventilation.

Methods and material for containment and cleaning

up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.

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# 7. Handling and storage

Precautions for safe handling:

End-users should follow industry best practices for handling and using this product.

Guidance may be found using the current version of ASTM Standard E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible and Straight Oil Metal Removal Fluids Avoid contact with eyes. Wash hands thoroughly after handling. Add material slowly when mixing with water. Do not add water to the material; instead, add the material to the water.

Conditions for safe storage, including any incompatibilities:

Store in original tightly closed container. Avoid contact with oxidizing agents. Store away from incompatible materials.

### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

| Chemical Identity   | Туре          | <b>Exposure Limit Values</b> | Source  |  |
|---|---------------|------------------------------|---|--|
| Distillates (petroleum),<br>hydrotreated heavy<br>naphthenic - Mist.                  | TWA           | 5 mg/m3                      | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (11 2011)  |  |
|   | STEL          | 10 mg/m3                     | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (11 2011)  |  |
| Distillates (petroleum),<br>hydrotreated heavy<br>naphthenic - Mist.                  | TWA           | 1 mg/m3                      | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |  |
| Distillates (petroleum),<br>hydrotreated heavy<br>naphthenic - Inhalable<br>fraction. | TWA           | 5 mg/m3                      | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |  |
| White mineral oil - Mist.   | TWA           | 5 mg/m3                      | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)   |  |
|   | STEL          | 10 mg/m3                     | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)   |  |
| White mineral oil - Mist.   | TWA           | 1 mg/m3                      | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |  |
| White mineral oil   | 8 HR ACL      | 5 mg/m3                      | Canada. Saskatchewan OELs (Occupational<br>Health and Safety Regulations, 1996, Table 21)<br>(05 2009)  |  |
|   | 15 MIN<br>ACL | 10 mg/m3                     | Canada. Saskatchewan OELs (Occupational<br>Health and Safety Regulations, 1996, Table 21)<br>(05 2009)  |  |
| White mineral oil - Mist.   | TWA           | 5 mg/m3                      | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (11 2011)  |  |
|   | STEL          | 10 mg/m3                     | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (11 2011)  |  |
| White mineral oil - Inhalable fraction.   | TWA           | 5 mg/m3                      | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |  |
|   | TWA           | 5 mg/m3                      | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |  |

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| White mineral oil - Inhalable fraction. | TWA           |         | 5 mg/m3   | US. ACGIH Threshold Limit Values (03 2012)  |
|---|---------------|---------|-----------|---|
| Hexylene glycol                         | CEILING       | 25 ppm  | 121 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)   |
| Hexylene glycol                         | CEILING       | 25 ppm  |           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Hexylene glycol                         | CEILING       | 25 թր   | om        | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2012)  |
| Hexylene glycol                         | CEV           | 25 ppm  |           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Hexylene glycol                         | Ceiling       | 25 ppm  |           | Canada. Saskatchewan OELs (Occupational<br>Health and Safety Regulations, 1996, Table 21)<br>(05 2009)  |
| Hexylene glycol                         | CEILING       | 25 ppm  | 121 mg/m3 | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (11 2011)  |
| Triethanolamine                         | TWA           |         | 5 mg/m3   | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)   |
| Triethanolamine                         | TWA           |         | 5 mg/m3   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Triethanolamine                         | TWA           | 0.5 ppm | 3.1 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Triethanolamine                         | 8 HR ACL      |         | 5 mg/m3   | Canada. Saskatchewan OELs (Occupational<br>Health and Safety Regulations, 1996, Table 21)<br>(05 2009)  |
|   | 15 MIN<br>ACL |         | 10 mg/m3  | Canada. Saskatchewan OELs (Occupational<br>Health and Safety Regulations, 1996, Table 21)<br>(05 2009)  |
| Triethanolamine                         | TWA           |         | 5 mg/m3   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (11 2011)  |
| Triethanolamine                         | TWA           |         | 5 mg/m3   | US. ACGIH Threshold Limit Values (03 2012)  |
| Paraffin wax - Fume.                    | TWA           |         | 2 mg/m3   | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)   |
| Paraffin wax - Fume.                    | TWA           |         | 2 mg/m3   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Paraffin wax - Fume.                    | TWA           |         | 2 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Paraffin wax - Fume.                    | 8 HR ACL      |         | 2 mg/m3   | Canada. Saskatchewan OELs (Occupational<br>Health and Safety Regulations, 1996, Table 21)<br>(05 2009)  |
|   | 15 MIN<br>ACL |         | 4 mg/m3   | Canada. Saskatchewan OELs (Occupational<br>Health and Safety Regulations, 1996, Table 21)<br>(05 2009)  |

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| Paraffin wax - Fume.              | TWA     |        | 2 mg/m3   | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)  |
|-----------------------------------|---------|--------|-----------|---|
| Paraffin wax - Fume.              | TWA     |        | 2 mg/m3   | US. ACGIH Threshold Limit Values (03 2012)  |
| Ethylene glycol                   | CEILING |        | 100 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)   |
| Ethylene glycol - Vapor.          | CEILING | 50 ppm |           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Ethylene glycol - Aerosol.        | CEILING |        | 100 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Ethylene glycol - Particulate.    | TWA     |        | 10 mg/m3  | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
|                                   | STEL    |        | 20 mg/m3  | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Ethylene glycol - Aerosol.        | CEV     |        | 100 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Ethylene glycol - Aerosol.        | Ceiling |        | 100 mg/m3 | Canada. Saskatchewan OELs (Occupational<br>Health and Safety Regulations, 1996, Table 21)<br>(05 2009)  |
| Ethylene glycol - Vapor and mist. | CEILING | 50 ppm | 127 mg/m3 | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation Respecting the Quality of the Work<br>Environment) (11 2011)  |
| Ethylene glycol - Aerosol.        | Ceiling |        | 100 mg/m3 | US. ACGIH Threshold Limit Values (03 2012)  |

Appropriate Engineering Controls

No data available.

## Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. 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.

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

**Skin Protection** 

**Hand Protection:** No data available.

Other: Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from

supervisor on the company's respiratory protection standards.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

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### 9. Physical and chemical properties

**Appearance** 

Physical state: Liquid

Form: No data available.

Color: Amber

Odor: Characteristic
Odor threshold: No data available.

**pH:** 9.3

Melting point/freezing point:

Initial boiling point and boiling range:

No data available.

No data available.

Flash Point: 168.33 °C

**Evaporation rate:**No data available.
Flammability (solid, gas):
No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

Vapor pressure:

No data available.

Vapor density:No data available.Density:No data available.

Relative density: 1.03

Solubility(ies)

Solubility in water: Emulsifiable in water
Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.

**Viscosity:** > 20.5 mm2/s (40 °C)

# 10. Stability and reactivity

**Reactivity:** Not reactive during normal use.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

None under normal conditions.

**Conditions to avoid:** Avoid heat or contamination.

**Incompatible Materials:** No data available.

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**Hazardous Decomposition** 

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

## 11. Toxicological information

Information on likely routes of exposure

Inhalation: Harmful if inhaled.

**Skin Contact:** Causes skin irritation.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix (): > 5000 mg/kg

**Dermal** 

**Product:** ATEmix (): 2000 - 5000 mg/kg

Inhalation

**Product:** Not classified for acute toxicity based on available data.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

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No carcinogenic components identified

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**ACGIH Carcinogen List:** 

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

Product: No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.

### 12. Ecological information

#### **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

# Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

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**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and Degradability

Biodegradation

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws. Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must

be applied.

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for

recycling or disposal.

### 14. Transport information

**TDG** 

Not regulated.

**IMDG** 

Not regulated.

IATA

Not regulated.

# 15. Regulatory information

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**Canada Federal Regulations** 

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

**National Pollutant Release Inventory (NPRI)** 

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional

**Reporting Requirements** 

CAD SK DCS White mineral oil Listed.

Canada. Canadian Environmental Protection Act (CEPA). National Pollutant Release Inventory

(NPRI) (Parts 1-4)

NPRI Not Regulated

**Greenhouse Gases** 

Not Regulated

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

**Issue Date:** 07/13/2017

**Revision Date:** 07/13/2017

Version #: 1.0

Further Information: No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

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