

# SAFETY DATA SHEET

## 1. Identification of the hazardous chemical and of the supplier

**Product identifier:** ECOCOOL 7011

**Other means of identification:** No data available.

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Metalworking fluid

**Recommended restrictions:** Industrial use only

**Manufacturer/Importer/Distributor Information**

### Manufacturer

Company Name: Fuchs Lubricants Co.  
Address: 17050 Lathrop Avenue  
Harvey, Illinois 60426  
Telephone: 708-333-8900  
Fax: 708-333-9180

Contact Person: EHS Department  
E-mail: sds@fuchs.com

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

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A

#### Unknown toxicity - Health

Acute toxicity, oral	26.96 %
Acute toxicity, dermal	43.71 %
Acute toxicity, inhalation, vapor	70.06 %
Acute toxicity, inhalation, dust or mist	56.27 %

### Environmental Hazards

Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

#### Unknown toxicity - Environment

Acute hazards to the aquatic environment 92.64 %  
Chronic hazards to the aquatic environment 96.74 %

## Label Elements

### Hazard Symbol:



**Signal Word:** Warning

**Hazard Statement:** H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H412: Harmful to aquatic life with long lasting effects.

### Precautionary Statements

**Prevention:** P264: Wash hands thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/eye protection/face protection.

**Response:** P302+P352: IF ON SKIN: Wash with plenty of water.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P321: Specific treatment (see in product SDS).  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

## 3. Composition/information on ingredients

### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15 - 40%
Glycerin	56-81-5	1 - 5%
Ethoxylated alcohol	Trade Secret	1 - 5%
Triazine compound	Trade Secret	1 - 5%

Monoethanolamine	141-43-5	1 - 5%
Triazine compound	Trade Secret	1 - 5%
Alcohols, C12-14-secondary, ethoxylated	Trade Secret	1 - 5%
Triethanolamine	102-71-6	0.1 - 1%
1-Propanamine, 3-methoxy-	Trade Secret	0.1 - 1%

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

**Trade secret information:** A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation:** Move to fresh air. Call a POISON CENTER/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. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

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

**Ingestion:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

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

**Symptoms:** No data available.

**Hazards:** No data available.

#### 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, CO<sub>2</sub>, dry chemical, or regular foam. Use fire-extinguishing 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.

**For non-emergency personnel:**

No data available.

**For emergency responders:**

No data available.

**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:**

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

## 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 Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. 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. Avoid contact with skin.

**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	Type	Exposure Limit Values	Source
Distillates (petroleum), hydrotreated heavy naphthenic	VLE-PPT	5 mg/m <sup>3</sup>	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Glycerin	VLE-PPT	10 mg/m <sup>3</sup>	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Monoethanolamine	VLE-CT	6 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
	VLE-PPT	3 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Triethanolamine	VLE-PPT	5 mg/m <sup>3</sup>	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

### 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.

## 9. Physical and chemical properties

## Appearance

Physical state:	liquid
Form:	Liquid
Color:	Amber
Odor:	Mild
Odor threshold:	No data available.
pH:	10
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	> 100 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Relative density:	0.969
<b>Solubility(ies)</b>	
Solubility in water:	Completely Soluble
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:	No data available.

## Other information

VOC:	93.27 g/l
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## 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.

**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

<b>Inhalation:</b>	Harmful if inhaled.
<b>Skin Contact:</b>	Causes skin irritation.
<b>Eye contact:</b>	Causes serious eye irritation.
<b>Ingestion:</b>	May be harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral Product:</b>	ATEmix (): > 5000 mg/kg
<b>Dermal Product:</b>	ATEmix (): > 5000 mg/kg
<b>Inhalation Product:</b>	ATEmix (, 4 h): > 20 mg/l Vapour

#### Repeated dose toxicity

<b>Product:</b>	No data available.
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#### Skin Corrosion/Irritation

<b>Product:</b>	No data available.
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#### Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	in vivo (Rabbit): Not irritant Experimental result, Key study
Ethoxylated alcohol	in vivo (Rabbit): Irritating; R38 Experimental result, Key study
Triazine compound	Not irritating in vivo (Rabbit): Not irritant Experimental result, Key study

Triethanolamine	in vivo (Rabbit): Not irritant Experimental result, Key study
1-Propanamine, 3-methoxy-	in vivo (Rabbit): Category 1A Experimental result, Supporting study
	in vivo (Rabbit): Corrosive Experimental result, Supporting study
	in vivo (Rabbit): Corrosive Experimental result, Supporting study
	in vivo (Rabbit): Category 1B Experimental result, Key study
	in vivo (Rabbit): Category 1A Experimental result, Supporting study
	in vivo (Rabbit): Corrosive Experimental result, Supporting study

#### Serious Eye Damage/Eye Irritation

**Product:** No data available.

##### Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	Rabbit, 48 hrs: Not irritating EU
Glycerin	Rabbit, 24 hrs: Not irritating Expert judgment
Ethoxylated alcohol	Rabbit, 24 - 72 hrs: Not irritating EU

#### Respiratory or Skin Sensitization

**Product:** No data available.

##### Specified substance(s):

Triazine compound	Skin sensitization:, in vivo (Guinea pig): May cause an allergic skin reaction.
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#### Carcinogenicity

**Product:** No data available.

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

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.

##### Specified substance(s):

Monoethanolamine	Respiratory tract irritation.
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#### 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.

##### Specified substance(s):

Glycerin	LC 50 (Fish): 51,000 - 57,000 mg/l
Ethoxylated alcohol	LC 50 (Fish, 96 h): 10 - 100 mg/l
Triazine compound	LC 50 (Fish, 96 h): 25 mg/l
Monoethanolamine	LC 50 (Fish, 96 h): 349 mg/l LC 50 (Fish, 96 h): 125 mg/l
Triazine compound	LC 50 (Fish, 96 h): 10 - 100 mg/l
Triethanolamine	LC 50 (Rainbow Trout, 4 d): 11,800 mg/l LC 50 (Fish, 96 h): > 100 mg/l LC 50 (Lepomis macrochirus, 96 h): 450 mg/l

##### Aquatic Invertebrates

**Product:** No data available.

##### Specified substance(s):

Triazine compound	EC50 (Daphnia, 48 h): 33 mg/l
Monoethanolamine	EC50 (Daphnia, 48 h): 65 mg/l EC50 (Daphnia, 48 h): 33 mg/l
Triazine compound	EC50 (Daphnia, 48 h): 10 - 100 mg/l
Triethanolamine	EC50 (Daphnia, 21 d): > 16 mg/l EC50 (Daphnia, 48 h): 609.9 mg/l EC50 (Daphnia, 24 h): 1,386 mg/l

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Specified substance(s):

Triazine compound NOEC (Fish, 30 d): 1.2 mg/l

Monoethanolamine NOEC (Fish, 30 d): 1.2 mg/l

#### **Aquatic Invertebrates**

**Product:** No data available.

#### **Specified substance(s):**

Triazine compound NOEC (Daphnia, 21 d): 0.85 mg/l

Monoethanolamine NOEC (Daphnia, 21 d): 0.85 mg/l

#### **Toxicity to Aquatic Plants**

**Product:** No data available.

#### **Specified substance(s):**

Triazine compound LC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 15 mg/l

Monoethanolamine EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 2.8 mg/l  
EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 15 mg/l

Triethanolamine EC50 (Alga, 72 h): 216 mg/l  
EC50 (Alga, 96 h): 169 mg/l

#### **Persistence and Degradability**

##### **Biodegradation**

**Product:** No data available.

##### **BOD/COD Ratio**

**Product:** No data available.

#### **Bioaccumulative potential**

##### **Bioconcentration Factor (BCF)**

**Product:** No data available.

##### **Specified substance(s):**

Monoethanolamine Potential to bioaccumulate is low.

#### **Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

##### **Specified substance(s):**

Glycerin Log Kow: -1.76

Monoethanolamine Log Kow: +/- 1.19 25 °C

Triethanolamine Log Kow: -1.75 - -1.32 No Estimated by calculation, Weight of Evidence study

**Mobility in soil:** No data available.

#### **Known or predicted distribution to environmental compartments**

Distillates (petroleum), hydrotreated heavy naphthenic	No data available.
Glycerin	No data available.
Ethoxylated alcohol	No data available.
Triazine compound	No data available.
Monoethanolamine	No data available.
Triazine compound	No data available.
Alcohols, C12-14-secondary, ethoxylated	No data available.
Triethanolamine	No data available.
1-Propanamine, 3-methoxy-	No data available.

**Other adverse effects:** Harmful to aquatic life with long lasting effects.

### 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

**DOT**  
Not regulated.

**IATA**  
Not regulated.

**IMDG**  
Not regulated.

### 15. Regulatory information

**Safety, health and environmental regulations specific for the product in question**

**Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)**  
None present or none present in regulated quantities.

**Mexico. Federal Law for the Control of Chemical Substances Susceptible to Diversion to Manufacturing of Chemical Weapons, Appendix 1: National list of chemical substances**

Triethanolamine

Precursors Chemicals Group 3: Chemicals listed in Group 3B can be used in the production of toxic chemicals hence are prohibited from exports and returns to states not party to the convention without prior authority from the recipient state. A certificate of final use is required. See CWC, Verification Annex, Part VIII.

**Mexico. Wastewater Discharges - Maximum Limits into Coastal Waters, Dams, Rivers, Soil and Wetlands (NOM-001-ECOL)**

none

**Mexico. Hazardous Chemicals (NOM-028-STPS-2012, System for administration of workplace safety in the process and critical equipment for handling hazardous chemicals, Appendix A, Table A.I)**

Not applicable

**Mexico. Narcotic Drugs List (General Health Law, Articles 234 & 239, Feb. 7, 1984)**

Not applicable

**Mexico. Psychotropic Drugs (General Health Law, Feb. 7, 1984, Articles 245 & 254 Bis)**

Not applicable

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

**Issue Date:** 07/07/2020

**Revision Information:** 07/07/2020: ARGHS\_MX

**Version #:** 1.1

**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.