

SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: ECOCOOL 73

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: LUBRICANTES FUCHS DE MEXICO, S.A. DE C.V.
Address: Acceso C No. 101 Parque Industrial Jurica
C.P. 76120 Querétaro, Qro/México
Telephone: + 52 (442) 238-9100
Fax: + 52 (442) 238-9110
Contact Person: Departamento de Calidad
E-mail: info@fuchs.com.mx

Emergency telephone number:

CENACOM:

01 800 00 41 300 sin costos y (55) 55 50 15 52, 55) 55 50 14 96 en la Cd. de Mexico

SETIQ:

01 800 00 214 00 sin costos y (55) 55 59 15 88 en la Cd. de Mexico

COATEA:

01 800 710 49 43 sin costos y (55) 26 15 20 45 y (55) 54 49 63 91 en la Cd. de Mexico

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation Category 3

Carcinogenicity Category 2

Unknown toxicity - Health

Acute toxicity, oral 33.02 %

Acute toxicity, dermal 39.73 %

Acute toxicity, inhalation, vapor 86.27 %

Acute toxicity, inhalation, dust 86.23 %
or mist

Label Elements

Hazard Symbol:



Signal Word:	Warning
Hazard Statement:	H316: Causes mild skin irritation. H351: Suspected of causing cancer.
Precautionary Statements	
Prevention:	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood.
Response:	P332+P313: If skin irritation occurs: Get medical advice/attention. P308+P313: IF exposed or concerned: Get medical advice/attention.
Storage:	P405: Store locked up.
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 (%)*
Mineral oils	Trade Secret	40 - 70%
Ethoxylated alcohol	Trade Secret	3 - 7%
Glycol ether	112-34-5	3 - 7%
2-Octyl-1-dodecanol	Trade Secret	1 - 5%
Sulfonated petroleum, sodium salt	Trade Secret	1 - 5%
Triazine compound	Trade Secret	1 - 5%
Diethanolamine	111-42-2	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.
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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.
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance. Continue to rinse for at least 15 minutes.
Ingestion:	Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting.

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:	Symptoms may be delayed.
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5. Fire-fighting measures

General Fire Hazards:	No unusual fire or explosion hazards noted.
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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Water spray, fog, CO2, 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.
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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.
For non-emergency personnel:	No data available.
For emergency responders:	No data available.
Methods and material for containment and cleaning up:	Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk.
Environmental Precautions:	Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:	Provide adequate ventilation. Observe good industrial hygiene practices. Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.
Conditions for safe storage, including any incompatibilities:	Store locked up.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Mineral oils - Mist.	TWA	5 mg/m ³	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control)
	STEL	10 mg/m ³	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control)
Diethanolamine	VLE-PPT	2 mg/m ³	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)

Appropriate Engineering Controls	No data available.
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Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
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: Characteristic

Odor threshold: No data available.

pH: 9.4

Melting point/freezing point: No data available.

Initial boiling point and boiling range: No data available.

Flash Point: No data available.

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

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: 0.985 (15 °C)

Solubility(ies)

Solubility in water: 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.

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

Inhalation:	Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Prolonged skin contact may cause redness and irritation.
Eye contact:	Eye contact is possible and should be avoided.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.

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 (): > 5000 mg/kg
Inhalation	
Product:	Not classified for acute toxicity based on available data.

Specified substance(s):

Ethoxylated alcohol LC 50 (Rat): > 100 mg/m³

Diethanolamine LC 0 (Rat): 0.2 mg/l
LC 0 (Rat): 3.35 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Ethoxylated alcohol	estimated Irritating. May cause irritation when held in occluded contact with the skin.
Glycol ether	in vivo (Rabbit): Irritating; R38 Experimental result, Key study
2-Octyl-1-dodecanol	in vivo (Rabbit): Slightly irritating Experimental result, Key study
Sulfonated petroleum, sodium salt	in vivo (Rabbit): Slightly irritating Experimental result, Key study
Triazine compound	in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Ethoxylated alcohol	Rabbit, 24 - 72 hrs: Not irritating EU Slightly irritating.
Glycol ether	Rabbit, 24 - 72 hrs: Highly irritating EU
Sulfonated petroleum, sodium salt	Rabbit, 1 - 24 hrs: 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.

Carcinogenicity

Product: Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Diethanolamine Overall evaluation: 2B. Possibly carcinogenic to humans.

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.

Specified substance(s):

Ethoxylated alcohol	LC 50 (Fish, 96 h): 10 - 100 mg/l
Glycol ether	LC 50 (Goldfish (Carassius auratus), 24 h): 2,700 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 96 h): 1,300 mg/l LC 50 (Fish, 96 h): > 100 mg/l
Sulfonated petroleum, sodium salt	LC 50 (Fish, 96 h): > 10,000 mg/l
Triazine compound	LC 50 (Fish, 96 h): 10 - 100 mg/l
Diethanolamine	LC 50 (Fish, 96 h): 1,200 - 1,580 mg/l LC 50 (Fish, 96 h): 10 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Glycol ether	EC50 (Daphnia, 48 h): > 100 mg/l
Triazine compound	EC50 (Daphnia, 48 h): 10 - 100 mg/l
Diethanolamine	EC50 (Daphnia, 48 h): 55 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Sulfonated petroleum, sodium salt	EC50 (Daphnia, 21 d): > 10 mg/l
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Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Glycol ether	EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): 100 mg/l
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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.

Known or predicted distribution to environmental compartments

Mineral oils	No data available.
Ethoxylated alcohol	No data available.
Glycol ether	No data available.
2-Octyl-1-dodecanol	No data available.
Sulfonated petroleum, sodium salt	No data available.

Triazine compound No data available.
Diethanolamine 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

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
Not applicable

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
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Issue Date:	10/18/2018
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Revision Information:	10/18/2018: ARGHS_MX
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Version #:	1.0
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Further Information:	No data available.
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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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