SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: ECOCOOL SYN 6000

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

Acute toxicity (Oral)	Category 5
Skin Corrosion/Irritation	Category 1A
Serious Eye Damage/Eye Irritation	Category 1

Unknown toxicity - Health

Acute toxicity, oral	33.04 %
Acute toxicity, dermal	33.4 %
Acute toxicity, inhalation, vapor	56.27 %
Acute toxicity, inhalation, dust or mist	60.57 %

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement:
H303: May be harmful if swallowed.
H314: Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P312: Call a POISON CENTER/doctor if you feel unwell.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P363: Wash contaminated clothing before reuse.
P321: Specific treatment (see in product SDS).
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310: Immediately call a POISON CENTER/doctor.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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 (%)*
Oxirane, 2-methyl-, polymer with oxirane	Trade Secret	15 - 40%
Monoethanolamine	141-43-5	3 - 7%
Amino alcohol	Trade Secret	1 - 5%
Triethanolamine	102-71-6	1 - 5%
Trade Secret	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:	Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.
Skin Contact:	Remove contaminated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention. Call a physician or poison control center immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.
Ingestion:	Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.

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.

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 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:	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. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Wash hands thoroughly after handling. Use caution when adding this material to water. Add material slowly when mixing with water. Do not add water to the material; instead, add the material to the water. Do not get in eyes, on skin, on clothing.
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
Monoethanolamine	VLE-CT	6 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace;

			Assessment and Control) (04 2014)
	VLE-PPT	3 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (04 2014)
Triethanolamine	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control) (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:	Characteristic
Odor threshold:	No data available.
pH:	9.5
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:	1.050 (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:	Harmful if inhaled.
Skin Contact:	Causes severe skin burns.
Eye contact:	Causes serious eye damage.
Ingestion:	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 (): 2000 - 5000 mg/kg

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

Inhalation
Product: ATEmix (, 4 h): > 20 mg/l Vapour

Repeated dose toxicity
Product: No data available.

Specified substance(s):

Trade Secret	NOAEL : < 20 mg/kg NOAEL : 250 mg/kg

Skin Corrosion/Irritation
Product: No data available.

Specified substance(s):

Amino alcohol	in vivo (Rabbit): Corrosive Experimental result, Key study Corrosive
Triethanolamine	in vivo (Rabbit): Not irritant Experimental result, Key study

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:
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.

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):

Oxirane, 2-methyl-, polymer with oxirane	LC 50 (Fish, 96 h): > 100 mg/l LC 50 (Oncorhynchus mykiss, 96 h): > 46.4 mg/l
Monoethanolamine	LC 50 (Fish, 96 h): 349 mg/l LC 50 (Fish, 96 h): 125 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):

Oxirane, 2-methyl-,	EC50 (Water Flea, 48 h): 97,000 mg/l

polymer with oxirane	EC50 (Daphnia, 48 h): > 100 mg/l
Monoethanolamine	EC50 (Daphnia, 48 h): 65 mg/l EC50 (Daphnia, 48 h): 33 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):

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

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Oxirane, 2-methyl-, polymer with oxirane	EC50 (Green algae (Scenedesmus dimorphus), 72 h): > 100 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):

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

Oxirane, 2-methyl-, polymer with oxirane	No data available.
Monoethanolamine	No data available.
Amino alcohol	No data available.
Triethanolamine	No data available.
Trade Secret	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

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:	10/18/2018
Revision Information:	10/18/2018**:** ARGHS_MX
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.