

SAFETY DATA SHEET

1. Identification of the hazardous chemical and of the supplier

Product identifier: ECO DRAW HVE1

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 sds@fuchs.com

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

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Dermal) Category 5
Skin Corrosion/Irritation Category 2
Toxic to reproduction Category 2

Unknown toxicity - Health

Acute toxicity, oral 16.31 %
Acute toxicity, dermal 21.77 %
Acute toxicity, inhalation, vapor 64.94 %
Acute toxicity, inhalation, dust 64.95 %

or mist

Label Elements

Hazard Symbol:

SDS_MX - 000000013843 1/12





Signal Word: Warning

Hazard Statement: H313: May be harmful in contact with skin.

H315: Causes skin irritation.

H361: Suspected of damaging fertility or the unborn child.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P264: Wash face, hands and any exposed skin thoroughly after handling. P280: Wear protective gloves/ protective clothing/ 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.
P312: Call a POISON CENTER or doctor/ physician if you feel unwell.
P321: Specific treatment (see supplemental first aid instructions on this

label).

P362+P364: Take off contaminated clothing and wash it before reuse. P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance

with local, regional, national and international regulations.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Tall oil, compound with triethanolamine	68092-29-5	10 - 30%
Polypropylene glycol monobutyl ether	9003-13-8	10 - 30%
Hexylene glycol	107-41-5	7 - 13%
Triethanolamine	102-71-6	5 - 10%
Boric Acid	10043-35-3	1 - 5%
Amides, lard oil, N, N- bis(hydroxyethyl)	70983-69-6	1 - 5%
Triazine compound	4719-04-4	0.1 - 1%
Monoethanolamine	141-43-5	<0.1%

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

SDS_MX - 000000013843 2/12



4. First-aid measures

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

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. 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. 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 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 fire-fighters

Special fire-fighting

procedures:

No data available.

SDS_MX - 000000013843 3/12



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

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: 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. Avoid contact

with skin. Wash hands thoroughly after handling.

Conditions for safe storage,

including any incompatibilities:

Store locked up.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Hexylene glycol	VLE-P	25 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Triethanolamine	VLE-PPT	5 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
Boric Acid - Inhalable fraction.	VLE-PPT	2 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)
	VLE-CT	6 mg/m3	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04

SDS_MX - 000000013843 4/12



			2014)
Monoethanolamine	VLE-CT	6 ppm	Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04
	VLE-PPT	3 ppm	2014) Mexico. OELs. (NOM-010-STPS-2014 Chemical Pollutants at the Workplace; Assessment and Control), as amended (04 2014)

Appropriate Engineering

No data available.

Controls

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: No data available.
Color: Light yellow

Odor: Mild

Odor threshold: No data available.

pH: 8.63

Melting point/freezing point:No data available.Initial boiling point and boiling range:No data available.Flash Point:Not applicableEvaporation rate:No data available.

SDS_MX - 000000013843 5/12



Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

Vapor density:

No data available.

Relative density: 1.0354

Solubility(ies)

Solubility in water: Soluble

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

No data available.

No data available.

Viscosity:

No data available.

No data available.

10. Stability and reactivity

Reactivity: Not reactive during normal use. 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: Causes skin irritation.

Eye contact: Causes eye irritation.

Ingestion: May be harmful if swallowed.

SDS_MX - 000000013843 6/12



Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eve 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

ATEmix (): > 5000 mg/kg

Dermal

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

ATEmix (): 2000 - 5000 mg/kg

Inhalation

Product: No data available.

Specified substance(s):

Boric Acid LC 50 (Rat): > 0.16 mg/l

LC 50 (Rat): > 2.03 mg/l LC 50 (Rat): > 2.03 mg/l LC 50 (Rat): > 2.12 mg/l LC 50 (Rat): > 2 mg/m3 LC 50 (Rat): > 0.16 mg/l

Monoethanolamine LC 50 (Rat): > 1.3 mg/l

LC 0 (Rat): 1.3 mg/l LC 50: 11 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

SDS_MX - 000000013843 7/12



Polypropylene glycol

In vitro (Human): Irritating, 3 min Experimental result, Key study

monobutyl ether

Irritating

Hexylene glycol Iri

in vivo (Rabbit): Not irritant, 24 - 72 h Experimental result, Key study in vivo (Rabbit): Slightly irritating, 24 - 72 h Experimental result, Not

specified

Triethanolamine

Boric Acid

in vivo (Rabbit): Not irritant, 24 - 72 h Experimental result, Supporting study in vivo (Guinea pig): Not irritant, 72 h Experimental result, Supporting study in vivo (Rabbit): not corrosive. 48 h Experimental result. Supporting study

in vivo (Rabbit): not corrosive, 48 h Experimental result, Supporting study in vivo (Rabbit): Not irritant, 72 h Experimental result, Supporting study in vivo (Rabbit): Not classifiable, 72 h Experimental result, Key study in vivo (Rabbit): Not irritant, 24 - 72 h Experimental result, Key study

Triazine compound Monoethanolamine

in vivo (Rabbit): Not irritant, 24 - 72 h Experimental result, Key study in vivo (Rabbit): Corrosive, 24 - 72 h Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Hexylene glycol Irritating

Rabbit, 24 - 72 h: Not irritant CLP (1272/2008) Rabbit, 24 - 72 h: Not irritant CLP (1272/2008) Rabbit, 24 - 72 h: Not irritant CLP (1272/2008) Rabbit, 24 - 72 h: Not irritant CLP (1272/2008) Rabbit, 24 - 72 h: Not irritant CLP (1272/2008)

Boric Acid Rabbit, 24 - 72 h: Category III 67/548/EEC

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: Suspected of damaging fertility or the unborn child.

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

SDS_MX - 000000013843 8/12



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):

Polypropylene glycol LC 50 (Fish): 10 mg/l monobutyl ether EC50 (Fish): 100 mg/l

LC 50 (Bleak (Alburnus alburnus), 96 h): 7,000 - 9,100 mg/l Mortality Hexylene glycol

LC 50 (Rainbow Trout, 4 d): 11,800 mg/l Triethanolamine

LC 50 (Fish, 96 h): > 100 mg/l

LC 50 (Lepomis macrochirus, 96 h): 450 mg/l

Boric Acid LC 50 (Rainbow Trout, 24 d): 150.0 mg/l

LC 50 (Goldfish, 3 d): 178 mg/l

Amides, lard oil, N, N-

bis(hydroxyethyl)

LC 50 (Fish, 96 h): 4,460 - 4,980 mg/l LC 50 (Fish, 96 h): 1,200 - 1,580 mg/l

Triazine compound LC 50 (Fish, 96 h): 10 - 100 mg/l

Monoethanolamine LC 50 (Fish, 96 h): 349 mg/l

LC 50 (Fish, 96 h): 125 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Polypropylene glycol monobutyl ether

LC 50 (Scud (Gammarus fasciatus), 96 h): 7.06 - 40.9 mg/l Mortality

Hexylene glycol EC50 (Water flea (Ceriodaphnia reticulata), 48 h): 2,400 - 3,200 mg/l

Intoxication

Triethanolamine EC50 (Daphnia, 21 d): > 16 mg/l

EC50 (Daphnia, 48 h): 609.9 mg/l EC50 (Daphnia, 24 h): 1,386 mg/l

LC 50 (Daphnids (no species mentioned), 48 h): 133 mg/l **Boric Acid**

SDS_MX - 000000013843 9/12



Amides, lard oil, N, N-

bis(hydroxyethyl)

EC50 (Daphnia, 48 h): 55 mg/l

Triazine compound EC50 (Daphnia, 48 h): 10 - 100 mg/l

Monoethanolamine EC50 (Daphnia, 48 h): 65 mg/l

EC50 (Daphnia, 48 h): 33 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):

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

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

Boric Acid LC 50 (Waterweed (Elodea canadensis), 21 d): 5 mg/l Mortality

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

EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 15 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):

SDS_MX - 000000013843 10/12



Hexylene glycol Log Kow: 0.58

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

study

Boric Acid Log Kow: 0.175

Monoethanolamine Log Kow: +/- 1.19 25 °C

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Tall oil, compound with

triethanolamine

No data available.

Polypropylene glycol

monobutyl ether

No data available.

Hexylene glycol
Triethanolamine
Boric Acid

No data available. No data available.

No data available.

Amides, lard oil, N, N-bis(hydroxyethyl)

No data available.

Triazine compound
Monoethanolamine

No data available. 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

SDS_MX - 000000013843 11/12



Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

Not applicable

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.

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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: 03/11/2025

Revision Information: 03/06/2025: 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.

12/12

SDS_MX - 000000013843