

# SAFETY DATA SHEET

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

Product identifier: ECO DRAW HVE2

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                                   |
| Telephone:<br>Fax: | Harvey, Illinois 60426<br>708-333-8900<br>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)

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#### 2. Hazard(s) identification

#### **Hazard Classification**

#### Health Hazards

| Skin Corrosion/Irritation                          | Category |
|--|----------|
| Toxic to reproduction<br>Unknown toxicity - Health | Category |
| Acute toxicity, oral                               | 9.04 %   |
| Acute toxicity, dermal                             | 12.68 %  |
| Acute toxicity, inhalation, vapor                  | 43.42 %  |
| Acute toxicity, inhalation, dust or mist           | 43.42 %  |

#### **Label Elements**

Hazard Symbol:



| Signal Word:                | Warning   |
|-----------------------------|---|
| Hazard Statement:           | H316: Causes mild skin irritation.<br>H361: Suspected of damaging fertility or the unborn child.  |
| Precautionary<br>Statements |   |
| Prevention:                 | P201: Obtain special instructions before use.<br>P202: Do not handle until all safety precautions have been read and<br>understood.<br>P280: Wear protective gloves/ protective clothing/ eye protection/ face<br>protection. |
| Response:                   | P332+P313: If skin irritation occurs: Get medical advice/attention.<br>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<br>monobutyl ether | 9003-13-8  | 7 - 13%                 |
| Hexylene glycol                         | 107-41-5   | 5 - 10%                 |
| Triethanolamine                         | 102-71-6   | 3 - 7%                  |
| Boric Acid                              | 10043-35-3 | 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.

# 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/effe   | cts, 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, CO2, dry chemical, or regular foam. Use fire-<br>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 a   | and precautions for fire-fighters  |  |
| 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,<br>protective equipment and<br>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<br>containment and cleaning<br>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:                                      | End-users should follow industry best practices for handling and using this product.  |
|   | Guidance may be found using the current version of ASTM Standard<br>E1497-05: Standard Practice for Selection and Safe Use of Water-Miscible<br>and Straight Oil Metal Removal Fluids Contains amines. Do not add sodium<br>nitrite or other nitrosating agents which may form cancer causing<br>nitrosamines. Do not handle until all safety precautions have been read and<br>understood. Obtain special instructions before use. Use personal protective<br>equipment as required. |
| Conditions for safe storage,<br>including any<br>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<br>Chemical Pollutants at the Workplace;<br>Assessment and Control), as amended (04<br>2014) |
| Triethanolamine                  | VLE-PPT | 5 mg/m3               | Mexico. OELs. (NOM-010-STPS-2014<br>Chemical Pollutants at the Workplace;<br>Assessment and Control), as amended (04<br>2014) |
| Boric Acid - Inhalable fraction. | VLE-PPT | 2 mg/m3               | Mexico. OELs. (NOM-010-STPS-2014<br>Chemical Pollutants at the Workplace;<br>Assessment and Control), as amended (04<br>2014) |
|                                  | VLE-CT  | 6 mg/m3               | Mexico. OELs. (NOM-010-STPS-2014<br>Chemical Pollutants at the Workplace;<br>Assessment and Control), as amended (04<br>2014) |
| Monoethanolamine                 | VLE-CT  | 6 ppm                 | Mexico. OELs. (NOM-010-STPS-2014<br>Chemical Pollutants at the Workplace;<br>Assessment and Control), as amended (04<br>2014) |
|                                  | VLE-PPT | 3 ppm                 | Mexico. OELs. (NOM-010-STPS-2014<br>Chemical Pollutants at the Workplace;<br>Assessment and Control), as amended (04<br>2014) |



| Appropriate Engineering<br>Controls | No data available.  |
|-------------------------------------|---|
| 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<br>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<br>handling the material and before eating, drinking, and/or smoking. Routinely<br>wash work clothing to remove contaminants. Discard contaminated<br>footwear that cannot be cleaned. |

# 9. Physical and chemical properties

| Appearance                                |                    |
|---|--------------------|
| Physical state:                           | liquid             |
| Form:                                     | No data available. |
| Color:                                    | Yellow             |
| Odor:                                     | Mild               |
| Odor threshold:                           | No data available. |
| pH:                                       | 8.6                |
| Melting point/freezing point:             | No data available. |
| Initial boiling point and boiling range:  | No data available. |
| Flash Point:                              | Not applicable     |
| Evaporation rate:                         | No data available. |
| Flammability (solid, gas):                | No data available. |
| Upper/lower limit on flammability or expl | osive 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:                         | 1.028              |
| Solubility(ies)                           |                    |
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| 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.   |  |
| Other information                   |  |  |
| VOC:                                | 0.01 g/l   |  |
| 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             | Thermal decomposition or combustion may liberate carbon oxides and |  |

# Hazardous Decomposition Products:

# 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.   |
|               |  |

other toxic gases or vapors.

# 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<br>Product:  | ATEmix (): > 5000 mg/kg  |
| Dermal<br>Product:  | ATEmix (): > 5000 mg/kg  |
| Inhalation<br>Product:  | No data available.   |
| Specified substance(s):<br>Boric Acid   | LC 50 (Rat): > 0.16 mg/l<br>LC 50 (Rat): > 2.03 mg/l<br>LC 50 (Rat): > 2.03 mg/l<br>LC 50 (Rat): > 2.12 mg/l<br>LC 50 (Rat): > 2 mg/m3<br>LC 50 (Rat): > 0.16 mg/l   |
| Monoethanolamine  | LC 50 (Rat): > 1.3 mg/l<br>LC 0 (Rat): 1.3 mg/l<br>LC 50: 11 mg/l  |
| Repeated dose toxicity<br>Product:  | No data available.   |
| Skin Corrosion/Irritation<br>Product:   | No data available.   |
| Specified substance(s):<br>Polypropylene glycol<br>monobutyl ether<br>Hexylene glycol<br>Triethanolamine<br>Boric Acid<br>Triazine compound<br>Monoethanolamine | In vitro (Human): Irritating , 3 min Experimental result, Key study<br>Irritating<br>in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Key study<br>in vivo (Rabbit): Slightly irritating , 24 - 72 h Experimental result, Not<br>specified<br>in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Supporting study<br>in vivo (Guinea pig): Not irritant , 72 h Experimental result, Supporting study<br>in vivo (Rabbit): not corrosive , 48 h Experimental result, Supporting study<br>in vivo (Rabbit): Not irritant , 72 h Experimental result, Supporting study<br>in vivo (Rabbit): Not irritant , 72 h Experimental result, Supporting study<br>in vivo (Rabbit): Not irritant , 72 h Experimental result, Key study<br>in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Key study<br>in vivo (Rabbit): Not irritant , 24 - 72 h Experimental result, Key study<br>in vivo (Rabbit): Corrosive , 24 - 72 h Experimental result, Key study |
| Serious Eye Damage/Eye Irritati   | on   |

Product: No data available. Specified substance(s):



| Hexylene glycol   | Irritating<br>Rabbit, 24 - 72 h: Not irritant CLP (1272/2008)<br>Rabbit, 24 - 72 h: Not irritant CLP (1272/2008) |
|---|---|
| Boric Acid  | Rabbit, 24 - 72 h: Category III 67/548/EEC  |
| Respiratory or Skin Sensitizatio<br>Product:  | n<br>No data available.   |
| Carcinogenicity<br>Product:   | No data available.  |
| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:<br>No carcinogenic components identified<br>Germ Cell Mutagenicity |   |
| In vitro<br>Product:  | No data available.  |
| In vivo<br>Product:   | No data available.  |
| Reproductive toxicity<br>Product:   | Suspected of damaging fertility or the unborn child.  |
| Specific Target Organ Toxicity - Single Exposure<br>Product: No data available.<br>Specified substance(s):                            |   |
| Monoethanolamine  | Respiratory tract irritation.   |
| Specific Target Organ Toxicity ·<br>Product:  | - Repeated Exposure<br>No data available.   |
| Aspiration Hazard<br>Product:   | No data available.  |
| Other effects:  | No data available.  |

# 12. Ecological information

## Ecotoxicity:

Acute hazards to the aquatic environment:



| Fish<br>Product:   | No data available.  |
|--|---|
| Specified substance(s):<br>Polypropylene glycol<br>monobutyl ether   | LC 50 (Fish): 10 mg/l<br>EC50 (Fish): 100 mg/l  |
| Hexylene glycol  | LC 50 (Bleak (Alburnus alburnus), 96 h): 7,000 - 9,100 mg/l Mortality   |
| Triethanolamine  | LC 50 (Rainbow Trout, 4 d): 11,800 mg/l<br>LC 50 (Fish, 96 h): > 100 mg/l<br>LC 50 (Lepomis macrochirus, 96 h): 450 mg/l  |
| Boric Acid   | LC 50 (Rainbow Trout, 24 d): 150.0 mg/l<br>LC 50 (Goldfish, 3 d): 178 mg/l  |
| Triazine compound  | LC 50 (Fish, 96 h): 10 - 100 mg/l   |
| Monoethanolamine   | LC 50 (Fish, 96 h): 349 mg/l<br>LC 50 (Fish, 96 h): 125 mg/l  |
|  |   |
| Aquatic Invertebrates<br>Product:  | No data available.  |
|  | No data available.<br>LC 50 (Scud (Gammarus fasciatus), 96 h): 7.06 - 40.9 mg/l Mortality   |
| Product:<br>Specified substance(s):<br>Polypropylene glycol  |   |
| Product:<br>Specified substance(s):<br>Polypropylene glycol<br>monobutyl ether                                       | LC 50 (Scud (Gammarus fasciatus), 96 h): 7.06 - 40.9 mg/l Mortality<br>EC50 (Water flea (Ceriodaphnia reticulata), 48 h): 2,400 - 3,200 mg/l  |
| Product:<br>Specified substance(s):<br>Polypropylene glycol<br>monobutyl ether<br>Hexylene glycol                    | LC 50 (Scud (Gammarus fasciatus), 96 h): 7.06 - 40.9 mg/l Mortality<br>EC50 (Water flea (Ceriodaphnia reticulata), 48 h): 2,400 - 3,200 mg/l<br>Intoxication<br>EC50 (Daphnia, 21 d): > 16 mg/l<br>EC50 (Daphnia, 48 h): 609.9 mg/l                                     |
| Product:<br>Specified substance(s):<br>Polypropylene glycol<br>monobutyl ether<br>Hexylene glycol<br>Triethanolamine | LC 50 (Scud (Gammarus fasciatus), 96 h): 7.06 - 40.9 mg/l Mortality<br>EC50 (Water flea (Ceriodaphnia reticulata), 48 h): 2,400 - 3,200 mg/l<br>Intoxication<br>EC50 (Daphnia, 21 d): > 16 mg/l<br>EC50 (Daphnia, 48 h): 609.9 mg/l<br>EC50 (Daphnia, 24 h): 1,386 mg/l |

# Chronic hazards to the aquatic environment:

| Fish<br>Product:                            | No data available.              |
|---|---------------------------------|
| Specified substance(s):<br>Monoethanolamine | NOEC (Fish, 30 d): 1.2 mg/l     |
| Aquatic Invertebrates<br>Product:           | No data available.              |
| Specified substance(s):<br>Monoethanolamine | NOEC (Daphnia, 21 d): 0.85 mg/l |



| Toxicity to Aquatic Plants<br>Product:  | No data available.  |
|---|---|
| <b>Specified substance(s):</b><br>Triethanolamine   | EC50 (Alga, 72 h): 216 mg/l<br>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<br>EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 15 mg/l |
| Persistence and Degradability   |   |
| Biodegradation<br>Product:  | No data available.  |
| BOD/COD Ratio<br>Product:   | No data available.  |
| Bioaccumulative potential<br>Bioconcentration Factor (BCF)<br>Product: No data available.     |   |
| Specified substance(s):<br>Monoethanolamine   | Potential to bioaccumulate is low.  |
| Partition Coefficient n-octanol / w<br>Product:<br>Specified substance(s):<br>Hexylene glycol | vater (log Kow)<br>No data available.<br>Log Kow: 0.58  |
| Triethanolamine   | Log Kow: -1.751.32 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 distribut<br>Tall oil, compound with<br>triethanolamine                    | <b>tion to environmental compartments</b><br>No data available.   |
| Polypropylene glycol<br>monobutyl ether   | No data available.  |
| Hexylene glycol   | No data available.  |
| Triethanolamine   | No data available.  |
| Boric Acid  | No data available.  |
| Triazine compound<br>Monoethanolamine   | No data available.<br>No data available.  |
| Other adverse effects:  | No data available.  |
|   |   |

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# 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.

#### ΙΑΤΑ

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) 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 38

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:  | 03/11/2025  |
| <b>Revision Information:</b>   | 03/07/2025: 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. |