

| 1. Identification             |                     |
|-------------------------------|---------------------|
| Product name                  | TUF DRAW 21305      |
| Other means of identification | No data available.  |
| Recommended use:              | Metalworking fluid  |
| Restrictions on use:          | Industrial use only |

Manufacturer/Importer/Supplier/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:         | msds@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 |  |  |
|                           |  |  |

| Skin Corrosion/Irritation         | Category 2 |
|-----------------------------------|------------|
| Serious Eye Damage/Eye Irritation | Category 1 |
| Carcinogenicity                   | Category 2 |

## Label Elements

## Hazard Symbol:



Signal Word:

Danger

Hazard Statement:

Causes skin irritation. Causes serious eye damage. Suspected of causing cancer.



| Precautionary<br>Statement  |   |  |
|---|---|--|
| Prevention:Wash thoroughly after handling. Wear protective gloves/pro<br>clothing/eye protection/face protection. Obtain special instr<br>use. Do not handle until all safety precautions have been re<br>understood. Use personal protective equipment as required   | uctions before<br>ead and                 |  |
| Response:<br>If in eyes: Rinse cautiously with water for several minutes.<br>lenses, if present and easy to do. Continue rinsing. IF ON S<br>plenty of water. If skin irritation occurs: Get medical advice,<br>Immediately call a doctor when symptoms persist or in eme<br>situations. Specific treatment (see the specific response gu<br>herein). Take off contaminated clothing. | SKIN: Wash with<br>/attention.<br>ergency |  |
| Storage: Store locked up.   | Store locked up.                          |  |
| <b>Disposal:</b> Dispose of contents/container to an appropriate treatment facility in accordance with applicable laws and regulations, characteristics at time of disposal.  |   |  |
| r hazards which do not None.<br>t in GHS classification:  |   |  |
| Unknown toxicity Health   |   |  |
| Acute toxicity, oral 7.44 %   |   |  |
| Acute toxicity, dermal 33.82 %  |   |  |
| Acute toxicity, inhalation, vapor 38.33 %   |   |  |
| Acute toxicity, inhalation, dust 38.33 % or mist  |   |  |

## 3. Composition/information on ingredients

## Hazardous Component(s):

| CAS-No.      | Concentration            |
|--------------|--------------------------|
| Confidential | >=60 - <=100%            |
| 102-71-6     | 3 - 7%                   |
| 111-42-2     | 0.5 - 1.5%               |
|              | Confidential<br>102-71-6 |

Specific chemical identities and/or exact percentages have been withheld as trade secrets.

## 4. First-aid measures

## Ingestion:

Other result

Call a Poison Center or doctor if you feel unwell. Rinse mouth.

Inhalation:

Move to fresh air. Call a Poison Center or doctor if you feel unwell.



| Skin Contact:  | Remove contaminated/saturated clothing and shoes. Wash contact areas with soap and water. If skin irritation occurs: Get medical advice/attention.   |
|--|--|
| 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.                                       |
| Most important symptoms/effect   | s, acute and delayed   |
| Symptoms:  | No data available.   |
| Indication of immediate medical a  | ttention 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) extingu  | lishing 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 pressurize and possibly rupture. During fire, gases hazardous to health may be formed.  |
| Special protective equipment an  | d precautions for firefighters   |
| Special fire fighting procedures:  | No data available.   |
| Special protective equipment for fire-fighters:                            | Firefighters must use standard protective equipment appropriate for industrial fires.  |
| 6. Accidental release measures   | S  |
| Personal precautions,<br>protective equipment and<br>emergency procedures: | See Section 8 of the SDS for Personal Protective Equipment. Do not handle damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. |
| Methods and material for<br>containment and cleaning<br>up:                | Absorb spill with an inert material, then place in a container for safe and proper disposal. Dike far ahead of larger spill for later recovery and disposal.                                       |
| MSDS_US - R00000450502   |  |



| Environmental Precautions:  | Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so and protect against releases into the environment. Remediate as appropriate.          |
|---|---|
| 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 nitrite or other nitrosating agents which may form cancer causing nitrosamines.  |
| Conditions for safe storage,<br>including any<br>incompatibilities: | Store locked up.  |

## 8. Exposure controls/personal protection

### **Exposure Limits**

| Chemical name                                  | type | Exposure Limit Values | Source   |
|--|------|-----------------------|--|
| Mineral oil - Mist.                            | PEL  | 5 mg/m3               | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) |
| Mineral oil - Mist.                            | STEL | 10 mg/m3              | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) |
| Triethanolamine                                | TWA  | 5 mg/m3               | US. ACGIH Threshold Limit Values (03 2012)                           |
| Diethanolamine - Inhalable fraction and vapor. | TWA  | 1 mg/m3               | US. ACGIH Threshold Limit Values (03 2012)                           |

| Protective Measures:                        | Provide easy access to water supply and eye wash facilities. Good general ventilation should be provided. 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. |     |
|---|--|-----|
| Respiratory Protection:                     | In case of inadequate ventilation use suitable respirator. Seek advice from supervisor on the company's respiratory protection standards.  |     |
| Eye Protection:                             | Wear safety glasses with side shields (or goggles).  |     |
| Skin and Body Protection:                   | Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacture for specific information.  | ∋r  |
| Hygiene measures:<br>MSDS_US - R00000450502 | Always observe good personal hygiene measures, such as washing after   | 4/9 |



handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. Discard contaminated footwear that cannot be cleaned. Avoid contact with skin, eyes, and clothing.

## 9. Physical and chemical properties

| Appearance  |                             |
|---|-----------------------------|
| Physical state:                                       | Liquid                      |
| Form:   | No data available.          |
| Color:  | Dark brown                  |
| Odor:   | Mild petroleum              |
| Odor threshold:                                       | No data available.          |
| pH:   | 9.7                         |
| Melting point/freezing point:                         | No data available.          |
| Initial boiling point and boiling range:              | No data available.          |
| Flash Point:  | 190.56 °C (375.01 °F)       |
| 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.          |
| Relative density:                                     | 1.033                       |
| 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:  | 555 mm2/s (40 °C, Measured) |

### 10. Stability and reactivity

**Reactivity:** 

Not reactive during normal use.

Chemical Stability:

No data available.



| Possibility of Hazardous<br>Reactions: | None under normal conditions.   |
|--|---|
| Conditions to Avoid:                   | Avoid heat or contamination.  |
| Incompatible Materials:                | No data available.  |
| Hazardous Decomposition<br>Products:   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## 11. Toxicological information

| Information on likely routes of exposure<br>Ingestion: May irritate and cause malaise.                        |   |  |
|---|---|--|
| Inhalation:   | May cause irritation to the respiratory system.                                     |  |
| Skin Contact:   | Causes severe skin burns.   |  |
| Eye contact:  | Causes serious eye damage.  |  |
| Symptoms related to the physical, chemical and toxicological characteristics<br>Ingestion: No data available. |   |  |
| Inhalation:   | No data available.  |  |
| Skin Contact:   | No data available.  |  |
| Eye contact:  | No data available.  |  |
| Information on toxicological effects  |   |  |
| Acute toxicity (list all possible routes of exposure)   |   |  |
| Oral<br>Product:  | ATEmix (): 2000 - 5000 mg/kg  |  |
| Dermal<br>Product:  | ATEmix (): 2000 - 5000 mg/kg  |  |
| Inhalation<br>Product:  | ATEmix (, 4 h): > 20 mg/l Vapour<br>ATEmix (, 4 h): > 5 mg/l Dusts, mists and fumes |  |
| Repeated dose toxicity<br>Product:  | No data available.  |  |
| Skin Corrosion/Irritation<br>Product:   | No data available.  |  |
| MSDS_US - R00000450502  |   |  |



| Serious Eye Damage/Eye Irritation |                    |  |
|-----------------------------------|--------------------|--|
| Product:                          | No data available. |  |

Respiratory or Skin Sensitization Product: No data available.

Carcinogenicity Product:

Suspected of causing cancer.

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

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

# US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified

### Germ Cell Mutagenicity

| In vitro<br>Product:  | No data available.   |  |
|---|--|--|
| In vivo<br>Product:   | No data available.   |  |
| Reproductive toxicity<br>Product:   | No data available.   |  |
| Specific Target Organ Toxicity - Single Exposure<br>Product: No data available.   |  |  |
| Specific Target Organ Toxicity - Repeated Exposure<br>Product: No data available. |  |  |
| Aspiration Hazard<br>Product:   | No data available.   |  |
| Other effects:  | Components may cause a risk to the following :<br>Liver Kidney |  |



| 12. Ecological information  |   |
|-----------------------------|---|
| General information:        | This product has not been evaluated for ecological toxicity or other environmental effects.   |
| 13. Disposal considerations |   |
| Disposal instructions:      | Discharge, treatment, or disposal may be subject to national, state, or local<br>laws. Dispose of waste at an appropriate treatment and disposal facility in<br>accordance with applicable laws and regulations, and product<br>characteristics at time of disposal. It is the responsibility of the product user<br>or owner to determine at the time of disposal, which waste regulations must<br>be applied. |
| Contaminated Packaging:     | Empty containers should be taken to an approved waste handling site for recycling or disposal.  |

This material is not subject to transport regulations.

### 15. Regulatory information

### **US Federal Regulations**

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

## **US State Regulations**

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

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

## Issue Date:

01.06.2015



| Revision Date:       | 27.04.2015  |
|----------------------|---|
| Version #:           | 1.0   |
| Further Information: | No data available.  |
| Disclaimer:          | <b>This information is provided without warranty</b> . 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. |