1 Identification

- **Product identifier**
  - Trade name: Super Lube® Fire Resistant Hydraulic Fluid
  - **Other means of identification:** No other identifiers

- **Recommended use and restriction on use**
  - **Recommended use:** Hydraulic fluid
  - **Restrictions on use:** No relevant information available.

- **Details of the supplier of the Safety Data Sheet**
  - **Manufacturer/Supplier:**
    Synco Chemical Corporation
    24 DaVinci Dr., P.O. Box 405
    Bohemia, NY 11716
    Telephone: 631-567-5300
    Email: info@super-lube.com

  - **Emergency telephone number:**
    CHEMTREC
    1-800-424-9300 (US/Canada)
    +01 703-527-3887 (International)

2 Hazard(s) Identification

- **Classification of the substance or mixture**
  - Acute Tox. 4 H302 Harmful if swallowed.
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Dam. 1 H318 Causes serious eye damage.
  - STOT RE 2 H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

- **Label elements**
  - **GHS label elements**
    The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**
  - GHS05 GHS07 GHS08

- **Signal word:** Danger

- **Hazard statements:**
  - H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

- **Precautionary statements:**
  - P260 Do not breathe mist/vapors/spray.
  - P264 Wash thoroughly after handling.
  - P270 Do not eat, drink or smoke when using this product.
Trade name: Super Lube® Fire Resistant Hydraulic Fluid

P280 Wear protective gloves and eye protection.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P330 Rinse mouth.
P302+P352 If on skin: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a poison center/doctor.
P314 Get medical advice/attention if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards
There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>Identity and/or exact percentage(s)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene glycol</td>
<td>STOT RE 2, H373</td>
<td>10-25%</td>
</tr>
<tr>
<td>diethylene glycol</td>
<td>STOT RE 2, H373</td>
<td>25-50%</td>
</tr>
<tr>
<td>2-dimethylaminoethanol</td>
<td>Flam. Liq. 3, H226</td>
<td>&lt;2.5%</td>
</tr>
<tr>
<td>67762-36-1 Fatty acids, C6-C12</td>
<td>Skin Corr. 1C, H314; Eye Dam. 1, H318</td>
<td>&lt;2.5%</td>
</tr>
</tbody>
</table>

Additional information:
For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

- Description of first aid measures
  - General information:
    Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact:
    Immediately rinse with water.
    If skin irritation continues, consult a doctor.
  - After eye contact:
    Remove contact lenses if worn.
    Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing:
    Rinse out mouth and then drink plenty of water.
    Do not induce vomiting; immediately call for medical help.
Trade name: Super Lube® Fire Resistant Hydraulic Fluid

· Most important symptoms and effects, both acute and delayed:
  - Irritant to skin and mucous membranes.
  - Irritating to eyes.
  - Danger:
    - Causes serious eye damage.
    - May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
    - Harmful if swallowed.
    - May be harmful if inhaled.
  - Indication of any immediate medical attention and special treatment needed:
    - Medical supervision for at least 48 hours.

5 Fire-fighting measures

· Extinguishing media
  - Suitable extinguishing agents:
    - The product is not flammable.
    - Use fire fighting measures that suit the environment.
  - For safety reasons unsuitable extinguishing agents: None.

· Special hazards arising from the substance or mixture
  - Formation of toxic gases is possible during heating or in case of fire.

· Advice for firefighters
  - Protective equipment:
    - Wear self-contained respiratory protective device.
    - Wear fully protective suit.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  - Ensure adequate ventilation.
  - Particular danger of slipping on leaked/spilled product.
  - Use personal protective equipment as required.
  - Environmental precautions
    - Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Send for recovery or disposal in suitable receptacles.

· Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and storage

· Handling
  - Precautions for safe handling:
    - Avoid contact with the eyes and skin.
    - Avoid breathing mist, vapors, or spray.
    - Keep out of reach of children.
Trade name: Super Lube® Fire Resistant Hydraulic Fluid

Avoid splashes or spray in enclosed areas.
Use only in well ventilated areas.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles:
Store in cool, dry conditions in well sealed receptacles.

Information about storage in one common storage facility: Store away from foodstuffs.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>Limit Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-21-1 ethylene glycol</td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Short-term: 10** mg/m³, 50* ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term: 25* ppm</td>
</tr>
<tr>
<td></td>
<td>*vapor fraction:*inh. fraction, aerosol only</td>
</tr>
<tr>
<td>WEEL (USA)</td>
<td>I (2)</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Short-term: 20** mg/m³</td>
</tr>
<tr>
<td></td>
<td>Long-term: 10** mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ceiling limit: 100* mg/m³, 50*** ppm</td>
</tr>
<tr>
<td></td>
<td>*Aerosol; **Particulate; ***Vapour</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Ceiling limit value: 100 mg/m³</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
<td>Ceiling limit value: 100* mg/m³</td>
</tr>
<tr>
<td></td>
<td>A4, *solo aerosol</td>
</tr>
<tr>
<td>111-46-6 diethylene glycol</td>
<td></td>
</tr>
<tr>
<td>WEEL (USA)</td>
<td>Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>108-01-0 2-dimethylaminoethanol</td>
<td></td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Short-term: 22 mg/m³, 6 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 11 mg/m³, 3 ppm</td>
</tr>
</tbody>
</table>

Exposure controls

General protective and hygienic measures:
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Engineering controls: No relevant information available.

Breathing equipment:
Not required under normal conditions of use.
For spills, respiratory protection may be advisable.

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**
  - Safety glasses

· **Body protection:** Protective work clothing

**Limitation and supervision of exposure into the environment**
No relevant information available.

**Risk management measures** No relevant information available.

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
</tr>
<tr>
<td>Form: Liquid</td>
</tr>
<tr>
<td>Color: Red</td>
</tr>
<tr>
<td>Odor: Mild</td>
</tr>
<tr>
<td>Odor threshold: Not determined.</td>
</tr>
</tbody>
</table>

| pH-value at 20 °C (68 °F): 9.2                        |
| Melting point/Melting range: Not determined.          |
| Boiling point/Boiling range: >100 °C (>212 °F)        |

| Flash point: Not applicable.                          |
| Flammability (solid, gaseous): Not applicable.        |
| Auto-ignition temperature: Not determined.            |
| Decomposition temperature: Not determined.            |
| Danger of explosion: Product does not present an explosion hazard. |

<table>
<thead>
<tr>
<th>Explosion limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower: Not determined.</td>
</tr>
<tr>
<td>Upper: Not determined.</td>
</tr>
<tr>
<td>Oxidizing properties: Non-oxidizing.</td>
</tr>
</tbody>
</table>

| Vapor pressure: Not determined.                       |

| Density:                                             |
| Relative density: 1                                  |
| Vapor density: Not determined.                       |
| Evaporation rate: Not determined.                    |

| Solubility in / Miscibility with Water: Fully miscible.|

| Partition coefficient (n-octanol/water): Not determined.|

| Viscosity:                                           |
| Dynamic: Not determined.                             |
| Kinematic: Not determined.                           |
10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**
  No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
  Reacts with strong alkali.
  Reacts with strong acids and oxidizing agents.
- **Conditions to avoid**
  Avoid acids.
- **Incompatible materials**
  No relevant information available.
- **Hazardous decomposition products**
  Carbon monoxide and carbon dioxide
  Nitrogen oxides

11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
    Harmful if swallowed.
    May be harmful if inhaled.
  - **LD/LC50 values that are relevant for classification:**

<table>
<thead>
<tr>
<th></th>
<th>107-21-1 ethylene glycol</th>
<th>111-46-6 diethylene glycol</th>
<th>108-01-0 2-dimethylaminoethanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal LD50</td>
<td>9530 mg/kg (rabbit)</td>
<td>1120 mg/kg (man)</td>
<td>1182 mg/kg (rat)</td>
</tr>
<tr>
<td>Oral LD50</td>
<td>1120 mg/kg (man)</td>
<td>12565 mg/kg (rat)</td>
<td>1220 mg/kg (rat, female)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td></td>
<td>11890 mg/kg (rabbit)</td>
<td>1370 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative LC50/4h</td>
<td></td>
<td></td>
<td>3.25 mg/l (mouse)</td>
</tr>
</tbody>
</table>
- **Primary irritant effect:**
  - **On the skin:** Irritant to skin and mucous membranes.
  - **On the eye:** Strong irritant with the danger of severe eye injury.
  - **Sensitization:** No sensitizing effects known.
- **IARC (International Agency for Research on Cancer):**
  None of the ingredients are listed.
- **NTP (National Toxicology Program):**

(Cont'd. on page 7)
Trade name: Super Lube® Fire Resistant Hydraulic Fluid

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**
  - None of the ingredients are listed.
  - Probable route(s) of exposure:
    - Ingestion.
    - Inhalation.
    - Eye contact.
    - Skin contact.
  - Germ cell mutagenicity: Based on available data, the classification criteria are not met.
  - Carcinogenicity: Based on available data, the classification criteria are not met.
  - Reproductive toxicity: Based on available data, the classification criteria are not met.
  - STOT-single exposure: Based on available data, the classification criteria are not met.
  - STOT-repeated exposure:
    - May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
  - Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
  - Aquatic toxicity No relevant information available.
  - Persistence and degradability No relevant information available.
  - Bioaccumulative potential: No relevant information available.
  - Mobility in soil: No relevant information available.

- **Additional ecological information**
  - General notes:
    - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.

- **Other adverse effects** No relevant information available.

13 Disposal considerations

- **Waste treatment methods**
  - Recommendation:
    - Contact waste processors for recycling information.
    - The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings**
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agent: Water, if necessary with cleansing agents.
14 Transport information

- **UN-Number**
  - DOT, ADR, IMDG, IATA: Not regulated.
- **UN proper shipping name**
  - DOT, ADR, IMDG, IATA: Not regulated.
- **Transport hazard class(es)**
  - DOT, ADR, IMDG, IATA: Not regulated.
- **Packing group**
  - DOT, ADR, IMDG, IATA: Not regulated.
- **Environmental hazards**
  - Marine pollutant: No
- **Special precautions for user**
  - Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **United States (USA)**
    - **SARA**
      - **Section 302 (extremely hazardous substances):**
        - None of the ingredients are listed.
      - **Section 355 (extremely hazardous substances):**
        - None of the ingredients are listed.
      - **Section 313 (Specific toxic chemical listings):**
        - 107-21-1 ethylene glycol
  - **TSCA (Toxic Substances Control Act)**
    - All ingredients are listed.
- **Proposition 65 (California)**
  - **Chemicals known to cause cancer:**
    - None of the ingredients are listed.
  - **Chemicals known to cause developmental toxicity for females:**
    - None of the ingredients are listed.
  - **Chemicals known to cause developmental toxicity for males:**
    - None of the ingredients are listed.
  - **Chemicals known to cause developmental toxicity:**
    - (Cont'd. on page 9)
Trade name: Super Lube® Fire Resistant Hydraulic Fluid

107-21-1 ethylene glycol

EPA (Environmental Protection Agency):
None of the ingredients are listed.

IARC (International Agency for Research on Cancer):
None of the ingredients are listed.

Canadian Domestic Substances List (DSL) (Substances not listed.):
All ingredients listed on DSL or NDSL.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio-accumulable, Toxic
vPvB: very Persistent and very Bioaccumulative
OSHA: Occupational Safety & Health Administration
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Sources
Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Safety Data Sheets, Individual Manufacturers

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