1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Transformer Oil (0826)

Manufacturer Information: Tulco Oils, Inc.
5240 E. Pine Street
Tulsa, Oklahoma 74115

Product Use: Industrial Oil

Emergency Phone Numbers:
Chemtrec N/A
Tulco Oils, Inc. (800) 375-2347

Information: Product Safety Information (800) 375-2347

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Amount (Vol%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Naphthenic Hydrotreated Distillates</td>
<td>64742-53-6</td>
<td>&gt;98%</td>
</tr>
<tr>
<td>BHT Blend Additives</td>
<td>Proprietary</td>
<td>&gt;1%</td>
</tr>
</tbody>
</table>

EXPOSURE GUIDELINES (SEE SECTION 15 FOR ADDITIONAL EXPOSURE LIMITS)

3. HAZARDS IDENTIFICATION

- EMERGENCY OVERVIEW
  Little or no immediate hazard.

  Hazards Ratings:
  
  Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
<th>PPI</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>HMIS</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

- POTENTIAL HEALTH EFFECTS

  - PRE-EXISTING MEDICAL CONDITIONS
    The following diseases or disorders may be aggravated by exposure to this product: Skin,

  - INHALATION
    No acute effects expected.

    LC50 (mg/l): no data
    LC50 (mg/m3): no data
    LC50 (ppm): no data
SKIN
Practically non-toxic if absorbed through the skin. May cause minimal skin irritation.

Draize Skin Score: no data
LD50 (mg/kg): no data

EYES
No eye effect expected.

INGESTION
Practically non-toxic if ingested.
LD50 (g/kg): no data

4. FIRST AID MEASURES

INHALATION
No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough of other symptoms develop.

SKIN
Wash with soap and water. Get medical attention if irritation develops or persists. Wash clothing before reuse.

EYES
Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, obtain medical treatment.

INGESTION
Material is practically non-toxic. Induction of vomiting is not required. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
Water spray  Regular foam  Dry chemical  Carbon dioxide

FIRE FIGHTING INSTRUCTIONS
Wear structural fire fighting gear. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

FLAMMABLE PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>Typical</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Text Result</th>
<th>Units</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>300</td>
<td></td>
<td></td>
<td>F</td>
<td>COC</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temp.</td>
<td>N/A</td>
<td></td>
<td>N/A</td>
<td>F</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Lower Explosion Lim.</td>
<td>no data</td>
<td></td>
<td></td>
<td>%</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Upper Explosion Lim.</td>
<td>no data</td>
<td></td>
<td></td>
<td>%</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES
Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.

7. HANDLING AND STORAGE

HANDLING
Wash thoroughly after handling.

STORAGE
NFPA class IIIB storage. Flash point is greater than 200 degrees F.


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult With a Health and Safety Professional for Specific Selections

- ENGINEERING CONTROLS
  Use with adequate ventilation. Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Mechanical ventilation recommended.

- PERSONAL PROTECTION

  - EYE PROTECTION
    Safety glasses (with side shields) recommended. Splash proof chemical goggles are recommended to protect against the splash of product.

  - GLOVES or HAND PROTECTION
    Protective gloves are recommended when prolonged skin contact cannot be avoided. The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Neoprene; Nitrile; Viton;

  - RESPIRATORY PROTECTION
    Concentration in air determines the level of respiratory protection needed. Use only NIOSH certified respiratory equipment. Respiratory protection is not usually needed unless product is heated or misted. Half-mask air purifying respirator with dust / mist filters or HEPA filter cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with dust / mist filters or HEPA filter cartridges is acceptable for exposures to fifty (50) times the exposure limit. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH/MSHA-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

  - OTHER
    Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required. Polyvinyl alcohol (PVA); The following materials are acceptable for use as protective clothing: Polyvinyl chloride (PVC); Neoprene; Nitrile; Viton; Polyurethane: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Remove contaminated clothing and wash before reuse. For non-fire emergencies, respiratory protection may be necessary and wear appropriate protective clothing to avoid contact with material.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical Property</th>
<th>Typical</th>
<th>Units</th>
<th>Text Result</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>N/A</td>
<td>Pale Straw/White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point</td>
<td>F</td>
<td>no data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk Density</td>
<td>lb/gal</td>
<td>no data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point</td>
<td>F</td>
<td>no data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>g/mole</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Octanol/Water Coefficient</td>
<td>N/A</td>
<td>no data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
<td>no data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>wt %</td>
<td>NIL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>N/A</td>
<td>Light Bland</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>ppm</td>
<td>no data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>mmHg</td>
<td>&lt;0.0001</td>
<td>@ 20 C</td>
<td></td>
</tr>
<tr>
<td>Viscosity (F)</td>
<td>SUS</td>
<td>@ 100 F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity (C)</td>
<td>9.01</td>
<td>CsT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

0826, Transformer Oil
09/29/05
10. STABILITY AND REACTIVITY

- **STABILITY**
  Stable

- **CONDITIONS TO AVOID**
  Avoid heat, sparks and open flame.

- **INCOMPATIBILITY**
  Strong oxidizers

- **HAZARDOUS DECOMPOSITION PRODUCTS**
  Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants.

- **HAZARDOUS POLYMERIZATION**
  Will not polymerize.

11. ECOLOGICAL INFORMATION

  No data available

12. DISPOSAL CONSIDERATIONS

  Follow federal, state and local regulations. This material is not a RCRA hazardous waste, if not contaminated. If material has been “used”, RCRA criteria (ignitability, reactivity, corrosivity and toxicity) must be determined. Do not flush material to drain or storm sewer. Contract to authorized disposal service.

13. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Governing Body</th>
<th>Mode</th>
<th>Proper Shipping Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Ground</td>
<td>Not Regulated</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Governing Body</th>
<th>Mode</th>
<th>Hazard Class</th>
<th>UN/NA No.</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Ground</td>
<td>N/A</td>
<td>N/A</td>
<td>Not Regulated</td>
</tr>
</tbody>
</table>

14. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Regulatory List</th>
<th>Component</th>
<th>CAS No.</th>
</tr>
</thead>
</table>

**Title III Classifications Sections 311,312:**

- Acute: NO
- Chronic: NO
- Fire: NO
- Reactivity: NO
- Sudden Release of Pressure: NO
15. OTHER INFORMATION

Limits for the product- 5mg/m3, Oil Mist Limit, (OSHA PEL/ACGIH TLV)  WHMIS Classification: not controlled. Please refer to the material safety data sheet for complete information.