1. IDENTIFICATION

1.1. PRODUCT IDENTIFIER USED ON LABEL:

1.1.1. RED LINE RL-600 BRAKE FLUID

1.2. OTHER MEANS OF IDENTIFICATION:

1.2.1. DOT-4 FULL SYNTHETIC BRAKE FLUID

1.2.2. Part #: 90402

1.3. RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE;

1.3.1. DOT-4 BRAKE FLUID

1.3.2. NO OTHER USES RECOMMENDED

1.4. NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CHEMICAL MANUFACTURE R, IMPORTER, OR OTHER RESPONSIBLE PARTY:

1.4.1. RED LINE SYNTHETIC OIL CORP

6100 EGRET COURT
BENICIA, CA 94510
United States of America

Product Information

Technical Information: +17077456100

1.5. EMERGENCY PHONE NUMBER:

1.5.1. Emergency Response

North America: CHEMTREC (800) 424-9300 after 5:00pm CST  Or +17035273887

2. HAZARD(S) IDENTIFICATION

2.1. CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) of §1910.1200:
2.1.1. Aspiration Toxic Category 1
2.1.2. Skin Irritation Category 2
2.1.3. Eye Irritation Category 2
2.1.4. Aquatic Chronic Toxicity Category 3

2.2. Signal Word:
2.2.1. WARNING

2.3. Symbol:

2.4. Hazard Statements:
2.4.1. May be Fatal if swallowed and enters airways.
2.4.2. Causes skin irritation.
2.4.3. Causes serious eye irritation.
2.4.4. Harmful to aquatic life with long lasting effects.

2.5. Precautionary Statements:
2.5.1. Prevention:
   2.5.1.1. Wear protective gloves.
   2.5.1.2. Wash thoroughly after handling.
   2.5.1.3. Wear eye protection/face protection.
2.5.2. Response:
   2.5.2.1. If swallowed: immediately call a poison center or doctor.
   2.5.2.2. Do NOT induce vomiting.
   2.5.2.3. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
   2.5.2.4. If on skin: wash with plenty of water, if irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.
2.5.3. Storage:
   2.5.3.1. Store locked up.
2.5.4. Disposal:
   2.5.4.1. Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/ information on ingredients

3.1. The chemical name and concentration (exact percentage) or concentration ranges of all ingredients which are classified as health hazards in accordance with paragraph (d) of §1910.1200
3.1.1. 

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS Number</th>
<th>EU Number</th>
<th>Concentration (%)</th>
</tr>
</thead>
</table>
4. FIRST AID MEASURES

4.1. Skin: Wash with plenty of water, if irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.

<table>
<thead>
<tr>
<th>Skin</th>
<th>Eye: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion:</td>
<td>If ingested, do not induce vomiting. Call a physician.</td>
</tr>
<tr>
<td>Inhalation:</td>
<td>Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell</td>
</tr>
</tbody>
</table>

5. FIRE FIGHTING MEASURES

5.1. **Flash Point:** 295°F (146.1°C)

5.2. **Protective Equipment/Fire Fighting Instructions:**

5.2.1. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

5.3. **Extinguishing Media:**

5.3.1. Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

5.4. **Special Firefighting Procedures:**

5.4.1. Cool exposed containers with water spray.

5.5. **Unusual Fire and Explosion Hazards:**

5.5.1. Pressure increase in over heated closed containers. Cool containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1. **Spill Procedures:**

6.1.1. Remove ignition sources. Recover Liquid. Add absorbent to spill area. Ventilate confined spaces. Advise authorities if product enters sewers, etc.

6.2. **Waste Disposal:**
6.2.1. Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved waste site
6.3. Precautionary Measures:
   6.3.1. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling.
   6.3.2. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

7. HANDLING AND STORAGE

7.1. Handling:
   7.1.1. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum re-conditioner or disposed of properly.

7.2. Storage:
   7.2.1. Keep container closed when not in use. Do not store with strong oxidizing agents. Do not store at elevated temperatures.
   7.2.3. Shelf life: Use within 24 months.
   7.2.4. Storage temperature: 10-35°C

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Component Exposure Limits:
   8.1.1. BRAKE FLUID 5mg/m³ (oil mist) ACGIH TLV OSHA PEL

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene glycol monoethyl ether borate ester</td>
<td>2mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td>2-aminoethanol; ethanolamine</td>
<td>3 PPM TWA</td>
<td>6 mg/m³, 3ppm</td>
</tr>
<tr>
<td>2,6-Di-tert-butyl-p cresol (BHT)</td>
<td>2 mg/m³ TWA</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Engineering Controls:
   8.2.1. Ventilate as needed to comply with exposure limit

8.3. Eye Protection:
   8.3.1. Use goggles/face shield to avoid eye contact

8.4. Glove Protection:
8.4.1. Use impervious gloves to avoid repeated/prolonged skin contact.

8.5. **Work/Hygienic Practices:**
   8.5.1. If clothing becomes contaminated, change to fresh clean clothing. Do not wear until thoroughly laundered.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

9.1. **Appearance/Odor:** Clear to yellow liquid with ether odor.

9.2. **Odor Threshold:** No data available

9.3. **pH:** 7.2

9.4. **Boiling Point:** 306°C

9.5. **Melting Point:** No data available

9.6. **Solubility (H₂O):** 100% @ 20°C

9.7. **Specific Gravity:** 1.080 @ 15.6°C

9.8. **Density:** 9.013 lbs/gal

9.9. **Octanol/H₂O Coeff.:** No data available

9.10. **Evaporation Rate (BUAC=1):** 0.01

9.11. **Molecular Weight:** No data available

9.12. **Decomposition Temp:** No data available

9.13. **Auto Ignition:** No data available

9.14. **Lower Flammability Limit:** No data available

9.15. **Flash Point:** 295°F (146.1°C)

9.16. **Upper Flammability Limit:** No data available

9.17. **Vapor Density (Air=1):** 10

9.18. **Vapor Pressure:** <1 kPa/ @ 20°C

9.19. **VOC:** No data available

9.20. **Flammability Class:** Not classified

9.21. **Viscosity @ 40°C** 9.5cSt (9.5 mm²/s)

9.22. **Viscosity @ 100°C** 2cSt (2 mm²/s)

10. **STABILITY AND REACTIVITY**

10.1. **Reactivity:**
   10.1.1. Material does not pose a significant reactivity hazard.

10.2. **Chemical Stability:**
   10.2.1. Stable

10.3. **Incompatibility/Conditions to avoid:**
   10.3.1. Avoid strong oxidants, strong acids, strong bases.

10.4. **Possibility of Hazardous Reactions:**
   10.4.1. Will not undergo hazardous polymerization.

10.5. **Hazardous Decomposition Products:**
10.5.1. Can include and are not limited to: Aldehydes, ketones, Organic acids.

11. TOXICOLOGY INFORMATION

11.1. Likely Routes of Exposure:
11.1.1. Ingestion, Inhalation, Eye contact, Skin contact.

11.2. Acute Effects:
11.2.1. Inhalation: Expected to be low inhalation hazard.
11.2.2. Eye Contact: Causes serious eye irritation.
11.2.3. Skin Contact: Causes skin irritation
11.2.4. Ingestion: May be fatal if swallowed and enters airways.

11.3. Component Data/ Analysis

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>Oral (LD50) (Rat)</th>
<th>Inhalation (LC50) (Rat)</th>
<th>Dermal (LD50) (Rabbit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene glycol monoethyl ether borate ester</td>
<td>&gt;5000 mg/kg</td>
<td>No data available</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>2-aminoethanol; ethanolamine</td>
<td>&gt;500 mg/kg</td>
<td>&gt;1.48 mg/l Estimated</td>
<td>1025 mg/kg</td>
</tr>
</tbody>
</table>

11.4. Sensitization:
11.4.1. None known.

11.5. Carcinogenicity:
11.5.1. None greater than 0.1%.

11.6. Mutagenicity:
11.6.1. None known.

11.7. Reproductive Toxicity:
11.7.1. None known.

11.8. Teratogenicity:
11.8.1. None known.

12. ECOLOGICAL INFORMATION

12.1. Toxicity:
12.1.1. Triethylene glycol monomethyl ether borate ester:
12.1.1.1. Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/l in most sensitive species).
12.1.1.2. Fish Acute & Prolonged Toxicity: LC50 Oncorhynchus mykiss (rainbow trout), semi-static test, 96 h: 590 mg/l
12.1.1.3. Aquatic invertebrate Acute Toxicity: EC50, Daphnia magna (water flea), static test, 48 h, immobilization: >1000 mg/l
12.1.1.4. Aquatic Plant Toxicity: EC50, alga Scenedesmus sp., static test, Growth rate inhibition, 96 h: 430 mg/l
12.1.2. 2-Aminoethanol; ethanolamine:
12.1.2.1. Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/l in the most sensitive species).
12.1.2.2. Fish Acute & Prolonged Toxicity: LC50, Cyprinus carpio (carp), semi-static test, 96 h: 349 mg/l
12.1.2.3. **Aquatic invertebrate Acute Toxicity:** EC50, Daphnia magna (water flea), static test, 48 h, immobilization: 65 mg/l

12.1.2.4. **Aquatic Plant Toxicity:** ErC50, Pseudokirchneriella subcapitata (green algae), Growth rate inhibition, 72 h: 2.5 mg/l

12.1.2.5. **Toxicity to Micro-organisms:** EC50, activated sludge: >1000 mg/l

12.1.2.6. **Fish Chronic Toxicity Value (ChV):** Oryzias latipes (Orange-red killifish), 30 d, Other, NOEC:1.2 mg/l, LOEC:3.6 mg/l

12.1.2.7. **Aquatic Invertebrates Chronic Toxicity Value:** Daphnia magna (Water flea), 21 d, number of offspring, NOEC: 0.85 mg/l

12.1.3. 2,6-Di-tert-butyl-p cresol (BHT)

12.1.3.1. Material is very toxic to aquatic organisms (LC50/EC50/IC50 below 1 mg/L in the most sensitive species).

12.1.3.2. **Aquatic Invertebrate Acute Toxicity:** EC50, Daphnia magna (Water flea), static test, 48 h, immobilization: 0.48 mg/l

12.1.3.3. **Aquatic Invertebrates Chronic Toxicity Value:** Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, NOEC: 0.07 mg/l

12.2. **Persistence and Degradability:**

12.2.1. Triethylene glycol monomethyl ether borate ester:

12.2.1.1. Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

<table>
<thead>
<tr>
<th>Biodegradation</th>
<th>Exposure Time</th>
<th>Method</th>
<th>10 Day Window</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-26%</td>
<td>28 d</td>
<td>Similar to OECD 301B Test.</td>
<td>Fail</td>
</tr>
</tbody>
</table>

12.2.2. 2-Aminoethanol; ethanolamine:

12.2.2.1. Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

12.2.2.2. **OECD Biodegradation Tests:**

<table>
<thead>
<tr>
<th>Biodegradation</th>
<th>Exposure Time</th>
<th>Method</th>
<th>10 Day Window</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;90%</td>
<td>21 d</td>
<td>OECD 301A Test</td>
<td>Pass</td>
</tr>
</tbody>
</table>

12.2.3. 2,6-Di-tert-butyl-p cresol (BHT)

12.2.3.1. Material is not readily biodegradable according to OECD/EEC guidelines.

12.3. **Bioaccumulative Potential:**

12.3.1. Triethylene glycol monomethyl ether borate ester:

12.3.1.1. Bioaccumulation: Based on information for components(s): Bioconcentration potential is low (BCF<100 or Log Pow <3).

12.3.1.2. Partition coefficient, n-octanol/water (log Pow): <3

12.3.2. 2-Aminoethanol; ethanolamine:

12.3.2.1. Bioaccumulation: Bioconcentration potential is low (BCF<100 or Log Pow <3).

12.3.2.2. Partition coefficient, n-octanol/water (log Pow): -1.91 measured.

12.3.3. 2,6-Di-tert-butyl-p cresol (BHT)
12.3.3.1. Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).
12.3.3.2. Partition coefficient, n-octanol/water (log Pow): 4.17 - 5.10 Estimated.
12.3.3.3. Biological Concentration Factor (BCF): 598.4; Fish; Estimated.

12.4. Mobility in Soil:
12.4.1. Triethylene glycol monomethyl ether borate ester:
   12.4.1.1. Mobility in Soil: No relevant data found.
12.4.2. 2-Aminoethanol; ethanolamine:
   12.4.2.1. Mobility in Soil: Potential for mobility in soil is very high (Koc between 0-50).
   12.4.2.2. Partition coefficient, soil organic carbon/water (Koc): 1.17 Estimated.
   12.4.2.3. Henry's law Constant (H): 3.7E-05 Pa*m3/mole. Estimated.
12.4.3. 2,6-Di-tert-butyl-p-cresol (BHT)
   12.4.3.1. Mobility in soil: Expected to be relatively immobile in soil (Koc > 5000).
   12.4.3.2. Partition coefficient, soil organic carbon/water (Koc): > 5,000 Estimated.
   12.4.3.3. Henry's Law Constant (H): 2.49E-03 atm*m3/mole Estimated.

12.5. Results of PBT and vPvB assessment:
12.5.1. Triethylene glycol monomethyl ether borate ester:
   12.5.1.1. This has not been assessed for persistence, bioaccumulation and toxicity (PBT).
12.5.2. 2-Aminoethanol; ethanolamine:
   12.5.2.1. This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
12.5.3. 2,6-Di-tert-butyl-p-cresol (BHT)
   12.5.3.1. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

12 DISPOSAL CONSIDERATIONS

12.1 Waste Disposal:
12.1.1 Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved waste site.

13 TRANSPORTATION INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

13.1 ROAD AND RAIL
   13.1.1 DOT: NOT REGULATED

13.2 VESSEL
   13.2.1 IMDG: NOT REGULATED

13.3 AIR
   13.3.1 IATA: NOT REGULATED

14 REGULATORY INFORMATION
14.1  **TSCA Inventory**  
14.1.1  This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

14.2  **SARA 302/304 Emergency Planning and Notification**  
14.2.1  No components identified.

14.3  **SARA 311/312 Hazard Identification**  
14.3.1  Not listed.

14.4  **SARA 313 Toxic Chemical Notification and Release Reporting**  
14.4.1  This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

14.5  **CERCLA**  
14.5.1  No components identified.

14.6  **Clean Water Act (CWA)**  
14.6.1  This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA’s National Response Center at (800) 424‐8802.

14.7  **California Proposition 65:**  
14.7.1  WARNING: This product does contain chemicals known to the state of California to cause cancer, birth defects, or any other reproductive harm.

14.8  **New Jersey Right-to-Know Label**  
14.8.1  Petroleum Oil  
14.8.2  <1.5% Monoethanolamine

### 15 OTHER INFORMATION

<table>
<thead>
<tr>
<th>HAZARD RANKINGS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>NFPA</td>
</tr>
<tr>
<td>HEALTH HAZARD</td>
<td>3</td>
</tr>
<tr>
<td>FIRE HAZARD</td>
<td>1</td>
</tr>
<tr>
<td>PHYSICAL HAZARD</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>B</td>
</tr>
</tbody>
</table>

15.2  **Date of preparation:** 10/24/2014

15.3  **MANUFACTURER DISCLAIMER:**

15.3.1  *The data presented herein is based upon tests and information, which we believe to be reliable. However, users should make their own investigations to determine the suitability of the information for their particular purpose.*