SECTION 1: PRODUCT IDENTIFICATION

Product Name: Cirro Xs Turbine Oil 32
Product Code #: 302X
CAS #: Not applicable for mixtures
Manufacturer: Royal Mfg Co, LP
Synonym: Not applicable
Chemical Name: Not applicable
Chemical Formula: Not applicable
Trade Secret: No
Address: 516 S. 25th West Ave.
          Tulsa, OK 74127
Phone: (918) 584-2671
Emergency Contact: CHEMTREC (24 hour Emergency Telephone), call: 1-800-424-9300
          International CHEMTREC, call: 1-800-255-3924
Recommended Use: Turbine Oil
Restrictions on Use: This product must not be used in applications other than recommended in Section 1 without taking the advice from supplier/manufacturer.

SECTION 2: HAZARD(S) IDENTIFICATION

Classifications:
- Skin sensitization: Category 1
- Carcinogenicity: Category 2
- Aquatic Hazard – Acute: Category 3
- Aquatic Hazard – Long-term: Category 4

Pictograms:

Signal Word: Warning
Hazard Statements: May cause an allergic skin reaction.
                 Suspected of causing cancer.
                 Harmful to aquatic life.
                 May cause long lasting harmful effects to aquatic life.
Precautionary Statements:
- P101: If medical advice is needed have product container or label at hand
- P102: Keep out of reach of children
- P103: Read Label before use
- P210: Keep away from Heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking.
- P211: So not spray on an open flame or other ignition source.
- P232: Protect from Moisture.
- P233: Keep container tightly closed
- P273: Avoid release to the environment.
SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Designation</th>
<th>% of Comp.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkylated phenol</td>
<td>&lt; 0.1%</td>
<td>121158-58-5</td>
</tr>
<tr>
<td>Aryl Amine</td>
<td>&lt; 0.1%</td>
<td>Trade secret</td>
</tr>
<tr>
<td>Substituted triazole</td>
<td>&lt; 0.1%</td>
<td>Confidential</td>
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</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Eyes: Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Immediately remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration using a pocket mask type resuscitator. Call a physician immediately.

Ingestion: Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Fire Hazard: No

Flash Point °C (°F): > 93.0° (199.4°)

Flammable Limits: LOWER: Not determined UPPER: Not determined

Extinguishing Media: Water Mist Foam Dry Powder CO2

Special protective Equipment and firefighting procedures: Not determined

Unusual Fire & Explosion: Not determined

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged container or spilled material unless wearing appropriate protective clothing/equipment. Ventilate the closed area.

Spills / Leaks: Isolate the spill/leak area in all directions for about 50 meters (150 ft) for liquids and about 25 meters (75 ft) for solids and semi-solids. Eliminate all ignition sources (no smoking, flares, sparks/flames in close vicinity). Keep unauthorized persons away and ventilate closed space before entering

SECTION 7: HANDLING & STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and prompt removal of material from eyes skin and clothing.

Storage: Store in a sealed container in a cool, dry environment.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:
**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

- **Appearance:** Pale Yellow - Colorless liquid
- **Upper Flammability/Explosive Limit:** Not determined
- **Odor:** Petroleum
- **Lower Flammability/Explosive Limit:** Not determined
- **Odor Threshold:** Not determined
- **Vapor Pressure:** Not determined
- **Melting Point °C (°F):** Not determined
- **Vapor Density:** Not determined
- **Freezing Point °C (°F):** Not determined
- **Vapor Temperature °C (°F):** Not determined
- **Pour Point °C (°F):** -40.0° (-40.0°)
- **Relative Density/Specific Gravity:** 0.8600
- **Boiling Range:** N/A
- **Solubility:** Not Water Soluble
- **Flash Point °C (°F):** > 199.4° (93.0°)
- **Auto-ignition temperature:** Not determined
- **Flash Point Method used:** ASTM D92
- **Partition Coefficient:** Not determined
- **Evaporation Rate:** Not determined
- **Decomposition temperature:** Not determined
- **Flammability:** None
- **Viscosity (cSt):** 32.00 @ 40° C
- **VOC Content:** N/A
- **VOC Less Water & Exempts:** N/A

**SECTION 10: STABILITY AND REACTIVITY**

- **Chemical Reactivity:** Not determined
- **Chemical Stability:** Stable under normal ambient temperature and conditions.
- **Conditions to Avoid:** Extreme temperature and direct sunlight/heat/flame
- **Materials to Avoid:** Strong oxidizing agents
- **Hazardous Decomposition:** Not expected

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Inhalation**
- Description of effects from short- and long-term exposure: Not known
- Description of symptoms: Not known
- Measure of toxicity: Not known

**Ingestion**
- Description of effects from short- and long-term exposure: Not known
Description of symptoms:
May cause nausea and vomiting.

Measure of toxicity:
Not known

Eyes
Description of effects from short- and long-term exposure:
Not known
Description of symptoms:
Contact may cause eye irritation.
Measure of toxicity:
Not known

Skin
Description of effects from short- and long-term exposure:
Not known
Description of symptoms:
Prolonged or repeated skin contact may cause irritation.
Measure of toxicity:
Not known

Carcinogens listing:
NTP: No
IARC: No
OSHA: No
GHS: No

Chronic Toxicity: No

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: No data available
Biodegradability: No data available
Bioaccumulation: No data available

SECTION 13: DISPOSAL CONSIDERATION

Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations. Regulations may vary by location.

SECTION 14: TRANSPORT INFORMATION

UN Number: 
Proper Shipping Name: Royal Cirro XS Turbine Oil 32

Pictograms:

SECTION 15: REGULATORY INFORMATION

OSHA Regulated Hazard: No
DOT Regulated: No
EC Classification: Non-applicable
TSCA Status: In compliance with TSCA inventory requirements for commercial purposes
SARA 312 Regulated Chemical(s): No
SARA 313 Regulated Chemical(s): Yes
**Cirro Xs Turbine Oil 32**

Date issued: 22-Dec-15

**EPA Registration Number:** Non-applicable

**California Prop. 65:**
- Toluene: 0.006736%
- Naphthalene: 0.000494%
- Benzene: 0.000003%
- 1-Naphthylamine: 0.000000%
- Aniline: 0.000000%
- 2-Naphthylamine: 0.000000%

**PA Right to know Chemical(s):** None known

**NJ Right to know Chemical(s):** None known

**Additional State Regulations:** None known

**Canada:** Non-applicable

### SECTION 16: OTHER INFORMATION

**NFPA**

### HMIS

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<table>
<thead>
<tr>
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<tbody>
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<tr>
<td>FLAMMABILITY</td>
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<td>REACTIVITY</td>
<td>0</td>
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<tr>
<td>PERSONAL PROTECTION</td>
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The above Information is based on the present state of our knowledge of the product at the time of publication. No warranty is implied with respect to the quality or the specification of the product and the user must satisfy themselves that the product is entirely suitable for their purposes.

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