SAFETY DATA SHEET

Date issued: 30-Oct-15

John Deere J20c/D

SECTION 1: PRODUCT IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>John Deere J20c/D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code #</td>
<td>255</td>
</tr>
<tr>
<td>CAS #</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Royal Mfg Co, LP</td>
</tr>
<tr>
<td>Synonym</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>No</td>
</tr>
<tr>
<td>Address</td>
<td>516 S. 25th West Ave. Tulsa, OK 74127</td>
</tr>
<tr>
<td>Phone</td>
<td>(918) 584-2671</td>
</tr>
<tr>
<td>Emergency Contact</td>
<td>CHEMTREC (24 hour Emergency Telephone), call: 1-800-424-9300</td>
</tr>
<tr>
<td></td>
<td>International CHEMTREC, call: 1-800-255-3924</td>
</tr>
<tr>
<td>Recommended Use</td>
<td>Tractor Hydraulic Fluid</td>
</tr>
<tr>
<td>Restrictions on Use</td>
<td>This product must not be used in applications other than recommended in Section 1 without taking the advice from supplier/manufacturer.</td>
</tr>
</tbody>
</table>

SECTION 2: HAZARD(S) IDENTIFICATION

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

Pictograms:

Signal Word: Warning

Hazard Statements:
- May cause an allergic skin reaction.
- 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.
- P280: Wear protective gloves/protective clothing/eye protection/face protection
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>Zinc Alkyldithiophosphate</td>
<td>1 - 5%</td>
<td>84605-29-8</td>
</tr>
<tr>
<td>Borate Ester</td>
<td>&lt; 1.0%</td>
<td>Confidential</td>
</tr>
<tr>
<td>Aryl Phosphate</td>
<td>&lt; 1.0%</td>
<td>101-02-0</td>
</tr>
<tr>
<td>Aryl Thiophosphate</td>
<td>&lt; 0.1%</td>
<td>597-82-0</td>
</tr>
</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°C (199.4°F)
- **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:**
OSHA Permissible Exposure Limits (PELs): 5 mg/m³
Threshold Limit Values (TLVs): 10 mg/m³

Engineering Controls: N/A

Personal Protective Equipment:
Face: Safety Glasses
Eyes: Gloves
Skin: 
Respiratory: 

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber Liquid
Upper Flammability/Explosive Limit: Not determined
Odor: Petroleum
Lower Flammability/Explosive Limit: Not determined
Odor Threshold: Not determined
Vapor Pressure: Not determined
pH: Not determined
Vapor Density: Not determined
Melting Point °C (°F): Not determined
Vapor Temperature °C (°F): Not determined
Freezing Point °C (°F): Not determined
Relative Density/Specific Gravity: 0.8790

Pour Point °C (°F): -40.0° (-40.0°)
Solubility: Not Water Soluble
Boiling Range: N/A
Partition Coefficient: Not determined
Flash Point °C (°F): > 199.4° (93.0°)
Auto-ignition temperature: Not determined
Flash Point Method used: ASTM D92
Decomposition temperature: Not determined
Evaporation Rate: Not determined
Viscosity (cSt): 9.40 @ 100° C
Flammability: None
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

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**SECTION 12: ECOLOGICAL INFORMATION**

**Aquatic Toxicity:** No data available

**Biodegradability:** No data available

**Bioaccumulation:** No data available

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**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.

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**SECTION 14: TRANSPORT INFORMATION**

Not regulated in transportation by DOT/IMO/IATA. Not classified as dangerous in the meaning of transport regulation.

**Pictograms:**

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**SECTION 15: REGULATORY INFORMATION**

- **OSHA Regulated Hazard:** No
- **DOT Regulated:** No
- **E C Classification:** Non-applicable
- **TSCA Status:** In compliance with TSCA inventory requirements for commercial purposes
- **SARA 312 Regulated Chemical(s):** No
John Deere J20c/D
Date issued: 30-Oct-15

SARA 313 Regulated Chemical(s): Yes
EPA Registration Number: Non-applicable
California Prop. 65:
- Toluene 0.006866%
- Benzene 0.000062%
- Naphthalene 0.000060%
- Ethyl benzene 0.000060%
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

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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