Monarch Synlube Sel 5W20

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Monarch Synlube Sel 5W20
Product Code #: 138D
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: Engine 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:
- Aquatic Hazard – Acute: Category 3
- Aquatic Hazard – Long-term: Category 4
Pictograms: None
Signal Word: None
Hazard Statements:
- 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
- P404: Store in a closed container

Percent of the mixture consisting of ingredient(s) of unknown toxicity: None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS
**Chemical Designation**

<table>
<thead>
<tr>
<th></th>
<th>% of Comp.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum),</td>
<td>5 - 25%</td>
<td>64742-55-8</td>
</tr>
<tr>
<td>hydrotreated light</td>
<td>5 - 25%</td>
<td>64742-54-7</td>
</tr>
<tr>
<td>paraffinic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distillates (Petroleum),</td>
<td>1 - 5%</td>
<td>84605-29-8</td>
</tr>
<tr>
<td>hydrotreated heavy</td>
<td>&lt; 1.0%</td>
<td>Trade secret</td>
</tr>
<tr>
<td>paraffinic</td>
<td>&lt; 1.0%</td>
<td>8001-22-7</td>
</tr>
<tr>
<td>Zinc Alkylthiophosphate</td>
<td>&lt; 0.1%</td>
<td>Not determined</td>
</tr>
<tr>
<td>Alkaryl Amine</td>
<td></td>
<td>122-39-4</td>
</tr>
<tr>
<td>Carboxylic Ester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Sulfonate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diphenylamine</td>
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<td></td>
</tr>
</tbody>
</table>

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**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.

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**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

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**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, flames, sparks/flames in close vicinity). Keep unauthorized persons away and ventilate closed space before entering.

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**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.

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**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits:**
- OSHA Permissible: 5 mg/m³
- Threshold Limit Values (TLVs): 10 mg/m³

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Royal Mfg Co LP, P.O. Box 3308, Tulsa, OK 74101 | 918-584-2671 | www.royalmfg.com | Product Code: 138D | Revision Date: June 2015 | Page 2 of 5
Monarch Synlube Sel 5W20
Date issued: 12-Nov-15

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Amber Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Petroleum</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Melting Point °C (°F):</td>
<td>Not determined</td>
</tr>
<tr>
<td>Freezing Point °C (°F):</td>
<td>Not determined</td>
</tr>
<tr>
<td>Pour Point °C (°F):</td>
<td>-30.0° (-22.0°)</td>
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<tr>
<td>Boiling Range</td>
<td>N/A</td>
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<td>Flash Point °C (°F):</td>
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<tr>
<td>Flash Point Method used</td>
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<tr>
<td>Evaporation Rate</td>
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<tr>
<td>Flammability</td>
<td>None</td>
</tr>
<tr>
<td>Upper Flammability/Explosive Limit</td>
<td>Not determined</td>
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<tr>
<td>Lower Flammability/Explosive Limit</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>Vapor Temperature °C (°F):</td>
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<tr>
<td>Relative Density/Specific Gravity</td>
<td>0.8480</td>
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<tr>
<td>Solubility</td>
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<tr>
<td>Partition Coefficient</td>
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</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined</td>
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<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
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<tr>
<td>Viscosity (cSt):</td>
<td>8.00 @ 100° C</td>
</tr>
<tr>
<td>VOC Content</td>
<td>N/A</td>
</tr>
<tr>
<td>VOC Less Water &amp; Exempts</td>
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</tr>
</tbody>
</table>

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: Monarch Syn Select 5W-20 SN/GF-5
Pictograms:

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
SARA 313 Regulated Chemical(s): Yes
EPA Registration Number: Non-applicable
California Prop. 65: Toluene 0.003323%, Benzene 0.000086%, Naphthalene 0.000085%, Ethyl benzene 0.000001%
PA Right to know Chemical(s): None known
**Monarch Synlube Sel 5W20**

Date issued: 12-Nov-15

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

**Additional State Regulations:** None known

**Canada:** Non-applicable

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### SECTION 16: OTHER INFORMATION

**NFPA**

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**HMIS**

<table>
<thead>
<tr>
<th>Monarch Synlube Sel 5W20</th>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>PERSONAL PROTECTION</th>
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<tbody>
<tr>
<td></td>
<td>0</td>
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<td>0</td>
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