SAFETY DATA SHEET


1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>FUNCTIONAL V - 515</th>
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</thead>
<tbody>
<tr>
<td>CHEMICAL FAMILY</td>
<td>OIL SOLUTION OF POLYMER</td>
</tr>
<tr>
<td>PRODUCT USE</td>
<td>LUBRICANT ADDITIVE - THICKENER</td>
</tr>
<tr>
<td>CAS REGISTRY NUMBER</td>
<td>MIXTURE</td>
</tr>
<tr>
<td>REVISION DATE</td>
<td>March 4, 2011</td>
</tr>
</tbody>
</table>

MANUFACTURER / SUPPLIER
FUNCTIONAL PRODUCTS INC.
8282 Bavaria Road
Macedonia, Ohio 44056, USA
Tel: 330-963-3060  Fax: 330-963-3322

2. HAZARDS IDENTIFICATION

EYES: May cause mild irritation.
SKIN: May cause mild irritation.
INGESTION: No hazards anticipated from ingestion incidental to industrial exposure.
INHALATION: Negligible unless heated to produce vapors. Vapors or finely misted materials may irritate the mucous membranes and cause irritation, dizziness and nausea.
CARCINOGENICITY: No known carcinogenicity.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>SUBSTANCE/ PREPARATION</th>
<th>% (w/w)</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>VEGETABLE OIL</td>
<td>80 - 100</td>
<td>120962-03-0</td>
</tr>
<tr>
<td>COPOLYMER</td>
<td>10 - 20</td>
<td>PROPRIETARY</td>
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</table>
4. **FIRST-AID MEASURES**

**INHALATION:**
If inhaled, remove to fresh air. Get medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**INGESTION:**
Do not induce vomiting. If vomiting occurs, keep head below hips to avoid breathing the products into the lungs.

**SKIN CONTACT:**
Wash with soap and water. Get medical attention if irritation develops.

**EYE CONTACT:**
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

5. **FIRE-FIGHTING MEASURES**

**FLASH POINT:**
> 150° C / 302° F

**UPPER FLAMMABLE LIMIT:**
Not determined.

**LOWER FLAMMABLE LIMIT:**
Not determined.

**EXTINGUISHING MEDIA:**
In case of fire, use water, foam, dry chemicals or CO2.

**FIRE-FIGHTING PROCEDURES:**
Recommended wearing self-contained breathing apparatus and full turnout gear.

6. **ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS**
Personal Protective Equipment must be worn. Keep unnecessary personnel away. Ventilate area and avoid breathing vapor or mist.

**ENVIRONMENTAL PRECAUTIONS AND CLEAN UP METHODS**
Spills should be contained, absorbed and containerized for disposal in accord with local, state and federal regulations. Prevent entry to sewers and water-way.

7. **HANDLING AND STORAGE**

**HANDLING:**
Avoid contact with eyes and skin. Wash thoroughly after handling. Avoid breathing vapor or dust. Keep away from heat, sparks and flames.

**STORAGE:**
Keep container tightly closed, in cool, well-ventilated and dry area.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Use with adequate ventilation to control fumes.
HANDS: Use chemical resistant, impervious gloves.
EYES: Use safety glasses, goggles or face mask.
CLOTHING: Long sleeve shirt is recommended.
RESPIRATORY SYSTEM Use appropriate respiratory protection if there is any potential for uncontrolled release or exposure levels are not known.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.
COLOR: Light amber.
ODOR: Mild fatty.
SPECIFIC GRAVITY: 0.92 (water=1).
SOLUBILITY: Insoluble in water.
VAPOR PRESSURE: < 0.1 mm Hg @ 68°F (20°C).
BOILING POINT: > 392°F (200°C).

10. STABILITY AND REACTIVITY

STABILITY: The product is stable.
INCOMPATIBILITY: Strong oxidants.
CONDITIONS TO AVOID: Excessive temperature.
HAZARDOUS DECOMPOSITION: Carbon oxides.
POLYMERIZATION: Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

SENSITIZATION: Based on current information, there is no known human sensitization associated with this product.
MUTAGENICITY: Experimental evidence suggests that this product do not cause mutagenesis.
CARCINOGENICITY Not classified or listed by IARC, NTP, OSHA, EU, and ACGIH.
TERATOGENICITY Based on best current information, there is no known teratogenicity associated with this product.
REPRODUCTIVE TOXICITY Based on best current information, there is no known reproductive toxicity associated with this product.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS Not available
FISH TOXICITY Not available
ALGAE TOXICITY Not available
BACTERIA TOXICITY Not available
13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORTATION INFORMATION

U.S DOT BULK
Not regulated.
U.S. DOT NON-BULK
Not regulated.
IMDG CODE
Not regulated.
ICAO
Not regulated.
ADR/RID HAZARD CLASS
Not regulated.

15. REGULATORY INFORMATION

U.S. TSCA INVENTORY
Yes
Other TSCA Reg.
No
SARA EXT. HAZ. SUBS.
No
SARA Section 313
No
CERCLA
No
CAL. PROP. 65
No

EUROPE
Canola (rape seed) oil is listed on EINECS inventory.

CHINA
All components are listed on IECSC.

JAPAN MITI
All components are listed on MITI inventory.

AUSTRALIA
All components are in compliance with chemical notification requirements in Australia.

CANADA
All components are listed on DSL inventory.

KOREA
All components are in compliance in Korea.

PHILIPPINES
All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act Of 1990 (R.A. 6969).

16. OTHER INFORMATION

NFPA CODE
Health: 1  Fire: 1  Reactivity: 0

HMIS CODE
Health: 1  Fire: 1  Reactivity: 0

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