SAFETY DATA SHEET

According to REACH, Regulation (EC) No 1907/2006 and amendments

Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Functional RD-535CP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Family</td>
<td>Lubricant Additive</td>
</tr>
<tr>
<td>Product Use</td>
<td>Rock Drilling Oil Additive</td>
</tr>
<tr>
<td>CAS Registry Number</td>
<td>Mixture</td>
</tr>
<tr>
<td>Revision Date</td>
<td>September 15, 2014</td>
</tr>
</tbody>
</table>

Manufacturer: Functional Products, Inc.
8282 Bavaria Road
Macedonia, Ohio 44056, USA
Tel (USA): + 1 330-963-3060
Fax (USA): + 1 330-963-3322
E-mail: SDS@functionalproducts.com

European Supplier: Lumar Quimica S.L.U.
Milanesat, 25-27, 4t. 1a.
08017 Barcelona
Spain
Tel: + 34 93 594 75 00
Fax: + 34 93 594 75 01
E-mail: lumar@lumarquimica.com

Emergency Phone Numbers:
United States: + 330-963-3060 (8:00AM-5:00PM EST)
Europe: + 34 93 594 75 00 (08:00 -13:00 14:00-17:00)
France (ORFILA): + 33 (0)1 45 42 59 59

Section 2: HAZARDS IDENTIFICATION

GHS Classification
Eye damage/ Eye Irritation: Category 2B.
Skin Irritation: Category 2.
Inhalation: Category 5
Oral: Category 4

GHS Label Elements
Signal Word: Warning
Hazard Statements

Precautionary Statements
Prevention
P280 - Wear protective gloves/protective clothing/eye protection.
P264 – Wash thoroughly after handling.

Response
P305 + P351 + P338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 – If eye irritation persists: Get medical advice/attention.
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 – If skin irritation occurs: get medical/attention.

Disposal
P501 – Dispose of contents/container in accordance with local / regional / national / international regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Preparation</th>
<th>% (w/w)</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olefin Sulfide</td>
<td>42.0 – 49.0</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Phosphoric Acid Esters, Amine Salt</td>
<td>7.0 – 14.0</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Alkyl aryl Amine</td>
<td>3.5 – 7.0</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Alkylated Triazole</td>
<td>4.0 – 6.0</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Hydrocarbon Polymer</td>
<td>1.5 – 2.0</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Ethoxylated alcohol</td>
<td>0.1 – 0.9</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Vegetable Oil</td>
<td>18.0 – 19.0</td>
<td>120962-03-0</td>
</tr>
</tbody>
</table>

Section 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:   If affected person is conscious, give plenty of water to drink.  Never give anything to drink to an unconscious person.  Get medical attention if symptoms appear.

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.

Section 5: FIRE-FIGHTING MEASURES
Flash Point: 115 °C / 240°F (COC)
Extinguishing Media: In case of fire use CO2, foam or dry chemicals.
Hazardous Combustion Products: Vapor may cause flash fire. Container may rupture on heating.
Fire Fighting Procedures: Recommended to wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Personal Protective Equipment must be worn. Keep unnecessary personnel away.
Environmental Precautions and Clean-Up Methods: Spills should be contained, absorbed and containerized for disposal in accord with local, state and federal regulations. Do not flush into surface water, sanitary sewer or ground water system.

Section 7: HANDLING AND STORAGE

Handling: Keep away from potential source of ignition. Wash thoroughly after handling. Open container in a well ventilated area. Avoid breathing vapors.
Storage: Store in well ventilated areas in maximum 45°C / 113°F temperatures.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Use with adequate ventilation.
Hands Use chemical resistant nitrile or neoprene gloves.
Eyes Use safety glasses, goggles or face mask.
Clothing Long sleeve shirt is recommended.
Respiratory Use appropriate respiratory protection if there is the potential for overexposure to fumes.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid
Color: Amber
Odor: Strong
Specific Gravity: 0.98 @ 15.6°C
Solubility: Insoluble in water
Flash Point: 115 °C / 240°F (COC)

Section 10: STABILITY AND REACTIVITY

Stability: The product is stable.
Incompatibility: Oxidizing agents.
Conditions to avoid: High temperatures, spark, and open flames.
Polymerization: Will not occur.
Section 11: TOXICOLOGICAL INFORMATION

ACUTE EXPOSURE

Oral Toxicity: No data available
Eye Irritation: No data available
Skin Irritation: No data available
Dermal Toxicity: No data available
Inhalation Toxicity: No data available

CHRONIC EXPOSURE

Chronic Toxicity: No data available
Carcinogenicity: No data available
Teratogenicity: No data available
Reproductive Toxicity: No data available

Section 12: ECOLOGICAL INFORMATION

Environmental Hazards: No data available
Environmental Fate: No data available
Fish Toxicity: No data available
Algae Toxicity: No data available
Bacteria Toxicity: No data available

Section 13: DISPOSAL CONSIDERATIONS

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

Section 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

Section 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
Japan MITI: Listed - MITI
<table>
<thead>
<tr>
<th>Country</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>AICS</td>
</tr>
<tr>
<td>Europe</td>
<td>EINECS</td>
</tr>
<tr>
<td>China</td>
<td>IECSC</td>
</tr>
<tr>
<td>Canada</td>
<td>DHL</td>
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<tr>
<td>Korea</td>
<td>KECI</td>
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<tr>
<td>New Zealand</td>
<td>NZIoC</td>
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<tr>
<td>Philippines</td>
<td>PICCS</td>
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</tbody>
</table>

Polymers are exempt from EINECS inventory under the polymer exemption.

**Section 16: OTHER INFORMATION**

<table>
<thead>
<tr>
<th>Code</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA Code</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>HMIS Code</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

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