SAFETY DATA SHEET
According to REACH, Regulation (EC) N° 1907/2006 and amendments

Section 1: PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>FUNCTIONAL V – 508S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Family</td>
<td>Copolymer</td>
</tr>
<tr>
<td>Product Use</td>
<td>Viscosity Improver</td>
</tr>
<tr>
<td>CAS Registry Number</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Revision Date</td>
<td>July 1, 2014</td>
</tr>
</tbody>
</table>

Manufacturer: Functional Products, Inc.
8282 Bavaria Road
Macedonia, Ohio 44056, USA
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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

This material has no known hazards.

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to Regulation (EC) N° 1272/2008 [CLP]
This is not a hazardous substance or mixture according Regulation (EC) No. 1272/2008.
No need for classification according to GHS criteria for this product.
According to Directive 67/548/EEC or 1999/45/EC
This is not a hazardous substance of mixture according to EC-directives 67/548/EEC or 1999/45/EC.
This material has no known hazards, if the regulations/notes for storage and handling are considered and followed.

2.2 LABEL ELEMENTS

Globally Harmonized System, EU (GHS)
The product does not require a hazard warning label in accordance with GHS criteria.

According to Regulation (EC) Nº 1272/2008 [CLP]
The product does not require a hazard warning label in accordance with Regulation (EC) No. 1272/2008.

According to Directive 67/54//EEC or 1999/45/EC
European Economic Community (EEC) Directives
The product does not require a hazardous warning label in accordance with EEC Directives.

2.3 OTHER ELEMENTS

If it is applicable, information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

According to Regulation (EC) No. 1272/2008 [CLP]
This material has no known hazards

### 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>Copolymer</td>
<td>&gt; 99</td>
<td>Proprietary</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: > 300° C / 572° 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.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Personal Protective Equipment must be worn. Keep unnecessary personnel away.
Environmental Precautions And Clean Up Methods: Recover undamaged and minimally contaminated material for reuse and reclamation. Shovel or sweep up.

Section 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.

Section 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.

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>PEL (OSHA)</th>
<th>TLV (ACGIH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbon</td>
<td>15 mg/m3, 8 Hr. TWA, total dust</td>
<td></td>
</tr>
<tr>
<td>Rubber</td>
<td>5 mg/m3, 8 Hr. TWA respirable</td>
<td></td>
</tr>
</tbody>
</table>
Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid pellets
Color: Translucent white
Odor: Mild
Density: 1 g / cm³
Solubility: Insoluble in water.
Melting Point: N/A

Section 10: STABILITY AND REACTIVITY

Stability: The product is stable.
Incompatibility: None known.
Conditions to Avoid: Temperatures above 290°C (554°F) will release combustible gases.
Hazardous Decomposition: CO, CO₂, organic oxidation products.
Polymerization: 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
Australia: Listed - AICS
Europe: Listed - EINECS
Polymers are exempt from EINECS inventory under the polymer exemption.
China Listed - IECSC
Canada Listed - DSL
WHMIS – not controlled.
Korea Listed - KECI
New Zealand Listed - NZIoC
Philippines Listed - PICCS

Section 16: OTHER INFORMATION

NFPA CODE Health: 1  Fire: 1  Reactivity: 0
HMIS CODE Health: 1  Fire: 1  Reactivity: 0

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