FUNCTIONAL V-808
THICKENER for AQUEOUS SYSTEMS

APPLICATION:
FUNCTIONAL V-808 is an environmentally friendly, non-hazardous aqueous thickener in powder form for use in fluids made from water or emulsions of water and soluble oils. FUNCTIONAL V-808 solutions may be used to suspend solids, for home care/cleaning formulations, and anywhere a non-ionic thickener is required for aqueous solutions. FUNCTIONAL V-808 may be used in applications where the pH is between 2 and 12 and up to 10% salinity. Aqueous solutions are stable to repeated freeze/thaw cycles.

COMPOSITION:
The active ingredient in FUNCTIONAL V-808 is a proprietary non-ionic polymer that provides thickening. The polymer is not considered biodegradable.

<table>
<thead>
<tr>
<th>Typical Properties</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>White free-flowing powder</td>
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<tr>
<td>pH of a 5% solution</td>
<td>8.5</td>
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| Kinematic Viscosity, in water       | 5wt% = 430 cSt @ 40°C  
                                        | 10wt% = 13,200 cSt @ 40°C |

TREATMENT LEVEL:
Due to the range of applications, treatment level is best determined by the end-user.

HANDLING:
FUNCTIONAL V-808 is a white powder. Wear appropriate PPE for handling powders such as gloves and a dust mask. As in handling any fine powders minimize dust/air formation and electrically ground all containers to avoid static discharge. Store containers sealed at room temperature and away from water. Replace container lid tightly after use to avoid moisture/water contamination. Solutions should be filtered after preparation.

FUNCTIONAL V-808 has a shelf life of 2 years. Aqueous solutions should be prepared by adding the polymer as a slow feed to a stirred solution at room temperature. Solubilization may take 4-8 hours depending on concentration. Use appropriate methods to minimize water loss during preparation. See the current Safety Data Sheet.