Using DuPont™ Capstone™ repellents for food packaging assures your customers that food on the shelf, at home or on the go is in good hands. Capstone™ repellents help protect what is packaged inside the wrapper, paper bag or paperboard box, ensuring the package’s image for maximum shelf appeal.

DuPont also cares about what is outside the wrapper, paper bag or paperboard box—the environment. DuPont has corporate product stewardship operating standards. The product life cycle for new products is evaluated, including industrial and consumer use, as well as disposal and environmental fate.

**Product Details**
DuPont has a history of more than 200 years of safety and innovation. Recently, DuPont scientists have developed Capstone™ oil and grease repellents for paper and paperboard packaging. Capstone™ repellents:

- are polymers dispersed in water
- bind with individual fibers to provide maximum fluorine efficiency and durability
- are based on short-chain technology with a favorable environmental profile
- are based upon a comprehensive environmental, health and safety knowledge foundation
- cannot break down to PFOA in the environment
- are targeted below LOD for PFOA*

Consistent with the DuPont mission of sustainable growth, and the direction of global regulatory agencies, Capstone™ repellents are designed to meet customer needs in the markets they serve. Capstone™ repellents have obtained listings with TSCA, the FDA, the BfR and meet the goals of the U.S. EPA 2010/15 PFOA Stewardship Program.

**Capstone™ Product Performance on Paper and Paperboard**
- High efficiency at low fluorine loading = favorable cost/performance
- Wide range of grease resistance (kit levels up to 12)
- Excellent run-ability on paper machines (wet-end or size press) and converting equipment
- No impact on other paper properties, repulpability or recyclability of paper goods

<table>
<thead>
<tr>
<th>Product</th>
<th>Composition</th>
<th>Approved for Use</th>
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</thead>
<tbody>
<tr>
<td>Capstone™ P-600</td>
<td>25% Active, Cationic</td>
<td>BfR XXXVI</td>
</tr>
<tr>
<td>Capstone™ P-620</td>
<td>19.5% Active, Cationic</td>
<td>FDA 21 CFR 176.170 (B-H and J) BfR XXXVI</td>
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<tr>
<td>Capstone™ P-623</td>
<td>19.5% Active, Cationic</td>
<td>FDA 21 CFR 176.170 (B-H and J) BfR XXXVI</td>
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<tr>
<td>Capstone™ P-640</td>
<td>30% Active, Anionic</td>
<td>FDA 21 CFR 176.170 (B-H) BfR XXXVI (pending)</td>
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Please visit our website www.capstone.dupont.com to download copies of the technical data sheets and MSDS.

The DuPont team of international technical specialists is available to work with customers to develop solutions that meet specific needs. DuPont centers for technical expertise are located in the U.S., France and the People’s Republic of China.

**DuPont™ Capstone™ and the Environment**

DuPont scientists have conquered the challenges of developing specialty ingredients for packaging products that deliver performance expected by customers, including favorable environmental, health and safety characteristics. Guided by corporate core values and sustainability goals, DuPont assesses the entire product life cycle of products. We call this comprehensive knowledge about Capstone™ repellents our “knowledge foundation.”

Comprised of six knowledge areas surrounded by science, principles and actions, data show Capstone™ repellents are safe for workers, consumers and the environment when used as intended. DuPont believes this data should be shared openly, and publishes its findings in scientific literature.

DuPont™ Capstone™ manufacturing facilities are ISO 9001:2008 and ISO 14001:2004 certified. Today, a comprehensive approach is integrated into the DuPont business model. DuPont is listed on the Dow Jones Sustainability North America Index, is on the 2010 list of 100 Best Corporate Citizens, is on the Leadership Index of the Carbon Disclosure Project and is a founding member of the World Business Council for Sustainable Development.

*Capstone™ products are based on short-chain molecules that cannot break down into PFOA in the environment.