SEA BRAT #4
TECHNICAL PRODUCT BULLETIN #D-10
USEPA, OIL PROGRAM CENTER
ORIGINAL LISTING DATE: NOVEMBER 26, 2002
REVISED LISTING DATE: "SEA BRAT #4"

I. NAME, BRAND, OR TRADEMARK

SEA BRAT #4
Type of Product: Dispersant

II. NAME, ADDRESS, AND TELEPHONE NUMBER OF MANUFACTURER/CONTACT

Alabaster Corp.
6921 Olson Ln.
Pasadena, TX 77505
Phone: (281) 487-5482
(800) 609-2728
Fax: (281) 487-9014
Email: alabastercorp@aol.com
(Mr. Charles A. Sheffield)

III. NAME, ADDRESS, AND TELEPHONE NUMBER OF PRIMARY DISTRIBUTORS

Garner Environmental Services
3197 Main Street
LaMarque, TX 77568
Phone: (800) 935-0308
Fax: (409) 935-0678
(Mr. Jack Campbell)

IV. SPECIAL HANDLING AND WORKER PRECAUTIONS FOR STORAGE AND FIELD APPLICATION

1. Flammability:
Non-flammable
2. Ventilation:
Normal.
3. Skin and eye contact; protective clothing; treatment in case of contact:
Wear safety glasses or goggles, gloves, and rubber boots. Wash after each shift. Remove and wash
contaminated clothing before reuse. No respiratory protection is required. Local exhaust is
desirable. Mechanical exhaust is helpful in congested areas.
Skin contact - flush with water. Seek medical attention if irritation persists. Eye contact - flush
with water using eye cup or fountain for 15 minutes. Seek medical attention if irritation persists.
Ingestion - seek medical attention. Inhalation - no medical attention is required with inhalation.
4.a. Maximum storage temperature: 120°F
4.b. Minimum storage temperature: 35°F
4.c. Optimum storage temperature range: NA
4.d. Temperatures of phase separations and chemical changes: NA

V. SHELF LIFE
VI. RECOMMENDED APPLICATION PROCEDURE

1. Application Method:
   Spray affected area with a high pressure pump. Always apply in compliance with federal, state, and local laws.

2. Concentration/Application Rate:
   Dilution ratios of 1 part SEA BRAT #4 to 9 parts water for a 10 percent solution.

3. Conditions for Use:
   May be applied to the coastal waters of the U.S. It is designed for hydrocarbon spills on water temperatures between 50ºF and 90ºF. It is best applied with nozzle pressure between 80 psi and 100 psi, with a direct hard spray and continuously moving the stream of water over the entire surface.

VII. TOXICITY AND EFFECTIVENESS

<table>
<thead>
<tr>
<th>Material Tested</th>
<th>Species</th>
<th>LC50 (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEA BRAT #4</td>
<td>Menidia beryllina</td>
<td>30.00 96-hr</td>
</tr>
<tr>
<td></td>
<td>Mysidopsis bahia</td>
<td>14.00 48-hr</td>
</tr>
<tr>
<td>No. 2 Fuel Oil</td>
<td>Menidia beryllina</td>
<td>16.00 96-hr</td>
</tr>
<tr>
<td></td>
<td>Mysidopsis bahia</td>
<td>14.00 48-hr</td>
</tr>
<tr>
<td>SEA BRAT #4 &amp; No. 2 Fuel Oil (1:10)</td>
<td>Menidia beryllina</td>
<td>23.00 96-hr</td>
</tr>
<tr>
<td></td>
<td>Mysidopsis bahia</td>
<td>18.00 48-hr</td>
</tr>
<tr>
<td>Reference Toxicant (DSS)</td>
<td>Menidia beryllina</td>
<td>1.14 96-hr</td>
</tr>
<tr>
<td></td>
<td>Mysidopsis bahia</td>
<td>0.98 48-hr</td>
</tr>
</tbody>
</table>

b. Effectiveness:
   SWIRLING FLASK DISPERSANT EFFECTIVENESS TEST WITH SOUTH LOUISIANA (S/L) AND PRUDHOE BAY (P/B) CRUDE OIL
   VENDOR LAB REPORT:
<table>
<thead>
<tr>
<th>Oil</th>
<th>Effectiveness (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prudhoe Bay Crude</td>
<td>53.55%</td>
</tr>
<tr>
<td>South Louisiana Crude</td>
<td>60.65%</td>
</tr>
<tr>
<td>Average of Prudhoe Bay and South Louisiana Crudes</td>
<td>57.10%</td>
</tr>
</tbody>
</table>

VIII. MICROBIOLOGICAL ANALYSIS

NA

IX. PHYSICAL PROPERTIES

1. Flash Point, ASTM Method D56: ≥200ºF
2. Pour Point, ASTM Method D97: 4ºF
3. Viscosity (furol seconds): 380 at 77ºF
4. Specific Gravity (g/cc): 0.994 at 70ºF
5. pH: 9.45
6. Surface Active Agents: Surfactants
7. Solvents: Propylene glycol
8. Additives: None
### X. ANALYSIS FOR HEAVY METALS, CYANIDE, AND CHLORINATED HYDROCARBONS

<table>
<thead>
<tr>
<th>Compound</th>
<th>Concentration (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Cadmium</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Chromium</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Copper</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Lead</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Mercury</td>
<td>&lt;0.0002</td>
</tr>
<tr>
<td>Nickel</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Zinc</td>
<td>0.215</td>
</tr>
<tr>
<td>Cyanide</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>Chlorinated Hydrocarbons</td>
<td>&lt;0.05</td>
</tr>
</tbody>
</table>