TECHNICAL PRODUCT BULLETIN #D-9
USEPA, OEM REGULATION AND POLICY DEVELOPMENT DIVISION
ORIGINAL LISTING DATE: JUNE 28, 2002
REVISED LISTING DATE:
"BIODISPERS"
(formerly PETROBIODISPERS)

I. NAME, BRAND, OR TRADEMARK
BIODISPERS
Type of Product: Dispersant

II. NAME, ADDRESS, AND TELEPHONE NUMBER OF MANUFACTURER/CONTACT
Petrotech America Corporation
130 William Street, Suite 802
New York, NY 10038
Phone: (212)933-9071, ext. 7001
Fax: (877) 226-4028
Email: Info@helpenvironmental.com
(Mr. Lawrence Gallo)

III. NAME, ADDRESS, AND TELEPHONE NUMBER OF PRIMARY DISTRIBUTORS
Petrotech America Corporation
130 William Street, Suite 802
New York, NY 10038
Phone: (212)933-9071, ext. 7001
Fax: (877) 226-4028
Email: Info@helpenvironmental.com
(Mr. Lawrence Gallo)

Manufacturing Plant:
Clariant Corp.
Charlotte, NC

H.E.L.P. Environmental
926 3rd Avenue
Brooklyn, NY 11232

IV. SPECIAL HANDLING AND WORKER PRECAUTIONS FOR STORAGE AND FIELD APPLICATION
1. Flammability: Non-flammable
2. Ventilation: Use general ventilation to minimize exposure to vapor or mist.
3. Skin and eye contact; protective clothing; treatment in case of contact: Skin contact – immediately flush with copious amounts of water. Remove and wash contaminated clothing and shoes. If irritation persists, see a doctor. Eye contact – may cause eye irritation. In case of contact, immediately flush eyes with plenty of water. If irritation persists, immediately see a doctor. Hygienic practices – wear safety glasses. Wear gloves in accordance with routine laboratory safety precautions.
4.a. Maximum storage temperature: >70°C
4.b. Minimum storage temperature: -25°C

4.c. Optimum storage temperature range:
4.d. Temperatures of phase separations and chemical changes: No phase or chemical separation observed.

V. SHELF LIFE
The product has unlimited shelf life.

VI. RECOMMENDED APPLICATION PROCEDURE
1. Application Method: Recommended application is by aircraft, fireboat monitors or similar apparatus.
2. Concentration/Application Rate: Concentration varies with spilled material - Solvents at 5%, light oils at 10%, medium oils at 10%, and heavy oils at 10%.
3. Conditions for Use: Data is for water temperature of 40°F to 65°F. There are no known application restrictions.

VII. TOXICITY AND EFFECTIVENESS
a. Toxicity:

Material Tested	Species	LC50 (ppm)
BIODIPSERS	Menidia beryllina	13.46 96-hr
	Mysidopsis bahia	78.90 48-hr
No. 2 Fuel Oil	Menidia beryllina	12.42 96-hr
	Mysidopsis bahia	2.82 48-hr
BIODIPSERS &	Menidia beryllina	5.95 96-hr
No. 2 Fuel Oil (1:10)	Mysidopsis bahia	2.66 48-hr
Reference Toxicant (SDS)	Menidia beryllina	11.84 96-hr
	Mysidopsis bahia	21.81 48-hr

b. Effectiveness:
SWIRLING FLASK DISPERSANT EFFECTIVENESS TEST WITH SOUTH LOUISIANA (S/L) AND PRUDHOE BAY (P/B) CRUDE OIL

Oil	Effectiveness (%)
Prudhoe Bay Crude	51.0
South Louisiana Crude	63.0
Average of Prudhoe Bay and South Louisiana Crudes	57.0

VIII. MICROBIOLOGICAL ANALYSIS
NA

IX. PHYSICAL PROPERTIES
1. Flash Point, ASTM Method D56: 193°F
2. Pour Point, ASTM Method D97: - 26°F
3. Viscosity at 40°C, ASTM Method D445: Initial boil point 104.2°C, at 50 mL 109°C, at 70 mL 111°C, at 80 mL 113.7°C, final temperature 307.1°C)
4. Specific Gravity: 0.965
5. pH: 7
6. Surface Active Agents: CONFIDENTIAL
7. Solvents: Water

8. Additives: None
9. Solubility: Product is 100% soluble in water.

X. ANALYSIS FOR HEAVY METALS, CYANIDE, AND CHLORINATED HYDROCARBONS

Compound	Concentration (ppm)
Arsenic	<2.50
Cadmium	<0.75
Chromium	<0.75
Copper	<0.50
Lead	<5.00
Nickel	<1.20
Zinc	<0.50
Cyanide	3.90*
Chlorinated Hydrocarbons	<5.00

*During the analysis of cyanide on sample #V202057-01 (Petrotech Dispersant) analyst encountered interferences due to the matrix of sample. Soapy residue created a false positive for cyanide. Sample showed no traces of cyanide. Value related to the soap film turbidity.