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**DOES NOT CONTAIN CBI**



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U.S. Environmental Protection Agency  
Office of Chemical Safety and Pollution Prevention  
Document Processing Center (Mail Code 7407M)  
1200 Pennsylvania Avenue  
Washington, DC 20460-0001  
Attn: TSCA Section 8(e) Coordinator

Re: TSCA 8(e) Submission of Findings from an Acute Immobilization Test on Water  
Accommodated Fractions of a Light Catalytic Cracked Gas Oil Study

Dear Madam or Sir:

The American Petroleum Institute (API), on behalf of the Petroleum HPV Testing Group (Testing Group), is submitting this notice pursuant to Section 8(e) of the Toxic Substances Control Act for the substance, "Distillates (petroleum), light catalytic cracked" (LCC gas oil) CASRN 64741-59-9. The Testing Group is an unincorporated group of petroleum substance manufacturers and importers affiliated by contractual obligation to establish and fund a voluntary data disclosure and testing program, in response to EPA's HPV Chemical Challenge Program. The Testing Group program is administered by API (membership list attached).

The Testing Group has received unaudited data from a study titled "*Daphnia magna*, Acute Immobilization Test on Water Accommodated Fractions of a Light Catalytic Cracked Gas Oil." This study was conducted in compliance with the EPA/TSCA (40 CFR 792) and OECD [C (97) 186 Final] Principles of Good Laboratory Practice. The test substance was administered for 48-hours to *D.magna* neonates in water accommodated fractions (WAFs) under static conditions with zero or minimal head space in the test vessels. Four replicates of 5 organisms (20 total) were exposed at each of the following loading rates: 0, 0.102, 0.256, 0.640, 1.60 and 4.00 mg/L and observations for immobilization were performed at 24 and 48 hours ( $\pm$  1 hour).

The unaudited data noted a 48 hour EC50 (effective concentration) of 0.45 mg/L and an EL50 (effective loading) of 0.51 mg/L.

A summary of immobilization findings, are provided below:

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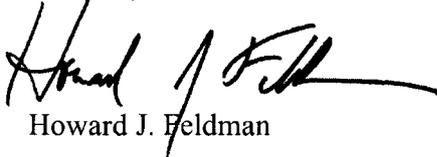
***Percent Immobilization by LCC Gas Oil Loading Rate and Concentration***

<b><i>Loading Rate (mg/L)</i></b>	<b><i>Mean Measured (mg/L)</i></b>	<b><i>% Immobilization 24 hrs</i></b>	<b><i>% Immobilization 48 hrs</i></b>
<b>0 (Control)</b>	<b>Not detected</b>	0	0
<b>0.102</b>	<b>0.0841</b>	0	0
<b>0.256</b>	<b>0.220</b>	0	0
<b>0.640</b>	<b>0.577</b>	0	75
<b>1.60</b>	<b>1.41</b>	20	100
<b>4.00</b>	<b>3.19</b>	90	100

LCC gas oil is a Class 2 substance (UVCB) defined as “A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C25 and boiling in the range of approximately 150°C to 400°C (302°F to 752°F). It contains a relatively large proportion of bicyclic aromatic hydrocarbons.” Because this substance is blended into diesel fuels and fuel oils, it may be considered by EPA to be widely distributed in the environment. Therefore, in accordance with EPA’s published TSCA Section 8(e) guidance we are submitting the unaudited test findings for your review.

When the final audited report of the LCC gas oil *Daphnia magna* acute toxicity study is complete it will be submitted to the EPA Office of Pollution Prevention and Toxics. If you have any questions or require further information regarding this submission please don’t hesitate to contact me.

Sincerely,

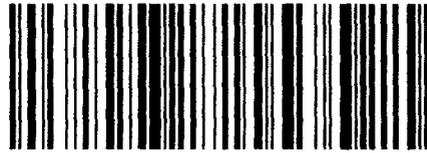


Howard J. Feldman

Attachments: Petroleum HPV Testing Group Membership List  
Unaudited Definitive Study data

cc. Oscar Hernandez, USEPA  
Diane Sheridan, USEPA  
Mark Townsend, USEPA

**CERTIFIED MAIL™**



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