

EQUISTAR

8EHQ-0304-15536

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VIA COURIER

March 18, 2004

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EPA EAST - Room 6428
Office of Pollution Prevention and Toxics
United States Environmental Protection Agency
1201 Constitution Avenue, NW
Washington DC 20002

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Attention: TSCA Section 8(e)

RE: **Heavy Pyrolysis Fuel Oil (CASRN 64742-90-1) – Ecotoxicity and Environmental Fate**

Dear Sir or Madam:

Equistar Chemicals, LP (Equistar) has received preliminary results from several ecotoxicity and environmental fate studies conducted with Heavy Pyrolysis Fuel Oil). We are submitting a summary of the results of these studies in accordance to Section 8(e) of the Toxic Substances Control Act (TSCA) and EPA's 1991 Section 8(e) Reporting Guide because it includes findings that EPA may consider to be 8(e) reportable. Equistar has not made a determination as to whether a significant risk of injury to health or the environment is actually presented by the findings.

Heavy Pyrolysis Fuel Oil was tested pursuant to the American Chemistry Council Olefins Panel testing plan for the Group 10 Fuel Oils under the High Production Volume Chemical Challenge Program. The Heavy Pyrolysis Fuel Oil stream encompasses the substance identified by CAS Registry Number 64742-90-1 (*Residues, petroleum, steam-cracked*) which is manufactured by Equistar. Equistar's intended end uses of Heavy Pyrolysis Fuel Oil do not involve intentional releases to the environment.

Specific questions concerning this submission should be directed to my attention at 713-309-2136. Thank you for your assistance in this regulatory matter.

Sincerely,



Patrick Gibson
Product Safety Specialist - Regulatory
Corporate TSCA Coordinator
Equistar Chemicals, LP

Enclosures

Cc: Dr. W. Claude White
TSCA 8(e) Files



274099

Group 10 Fuel Oils - Environmental Testing Update
Preliminary Data (not yet QA'd)

Heavy Pyrolysis Fuel Oil

Fish (Om) 96hr	LL50 =	5.6 mg/L	(95% 4.5-6.9)
	LC50 =	4.4 mg/L	(95% 3.7-5.3)
Daphnid (Dm) 48hr	EL50 =	3.3 mg/L	(99% 2.3-4.8)
	EC50 =	2.7 mg/L	(99% 1.8-4.1)
Alga (Ps) 96hr	ErL50 =	2.1 mg/L	(95% could not calculate)
	ErC50 =	1.8 mg/L	(95% could not calculate)
	EbL50 =	1.4 mg/L	(95% 1.3-1.6)
	EbC50 =	1.3 mg/L	(95% 1.2-1.4)
	NOELRr =	0.39 mg/L	
	NOECr =	0.42 mg/L	
	NOELRb =	0.39 mg/L	
NOECb =	0.42 mg/L		

Pyrolysis C10+ Fuel Oil

Fish (Om) 96hr	LL50 =	1.1 mg/L	(95% 0.99-1.3)
	LC50 =	1.0 mg/L	(95% 0.88-1.2)
Daphnid (Dm) 48hr	EL50 =	1.2 mg/L	(99% 0.83-1.8)
	EC50 =	1.2 mg/L	(99% 0.82-1.7)
Alga (Ps) 96hr	ErL50 =	2.2 mg/L	(95% 2.1-2.3)
	ErC50 =	1.6 mg/L	(95% 1.5-1.7)
	EbL50 =	1.2 mg/L	(95% could not calculate)
	EbC50 =	0.9 mg/L	(95% could not calculate)
	NOELRr =	0.18 mg/L	
	NOECr =	0.12 mg/L	
	NOELRb =	0.18 mg/L	
NOECb =	0.12 mg/L		

Group 10 (Fuel Oils) - Biodegradation Testing Update
Preliminary Data (not yet QA'd)

Heavy Pyrolysis Fuel Oil (MRD-03-768 Study 176894A)
Day 28 Results

Rep	Mg O2	%Biodeg
1	70.89	33.24
2	68.35	31.36
3	55.17	22.48
Mean	64.80	29.03
SD	8.44	5.75

