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TSCA section

8E

Submitting Organization

ATLANTIC RICHFIELD CO

Contractor

Document Title

SUPPLEMENTAL INFORMATION: LETTER SUBMITTING PRELIMINARY
INFORMATION FROM A DERMAL SCREENING STUDY IN RATS ON LIGHT
CYCLE OIL WITH ATTACHMENT

Chemical Category

LIGHT CYCLE OIL

SUPPL

ARCO

511 South Flower Street
Los Angeles, California 90071
Telephone 213 486 1789

William D. Leake
Vice President
Environment, Health & Safety

8E

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April 8, 1992

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Document Control Officer (TS-790)
Attention: 8(e) Coordinator
Office of Toxic Substances
U.S. Environmental Protection Agency
401 M Street, S.W.
Washington, DC 20460

EPA-OTS



001020379M

Subject: TSCA Section 8(e) Notice on a Refinery Stream Suspected of Containing Varying Levels of Carbazoles that are Contained in Carbon Black Oil (CAS 64741-62-4; 8EHQ-1185-0576)

Dear Sir/Madam:

In accordance with the provisions of Section 8(e) of the Toxic Substances Control Act, the Atlantic Richfield Company (ARCO) is submitting information on the preliminary results of a screening study in experimental animals to assess the developmental toxicity of refinery streams suspected of containing varying levels of carbazoles.

ARCO initiated this follow-up study due to previous reports by Mobil and ARCO (8EHQ-1185-0576) of adverse effects on rat fetuses after dermal exposure to carbon black oil (CBO) a material which contains carbazoles. The objective of the ARCO study being reported in this letter was to determine the maternal and fetal toxicity of selected refinery streams that like CBO may contain carbazoles.

For this study, Light Cycle Oil (LCO, CASN 64741-59-9) was dermally administered to groups of pregnant rats during days 0 to +4 of gestation. LCO has been previously reported to produce fetal toxicity at 1000 mg/kg. Animals received doses of 0, 50, 333 and 1000 mg/kg of the test material. The data indicates that there were increases in fetal toxicity caused by LCO in the 333 and 1000 mg/kg dose groups. The primary findings were a decrease in the mean number of live pups; alterations in pup viability/weight gain, and a decrease in maternal weight gain.

CONTAINS NO CBI

Document Control Officer
April 8, 1992
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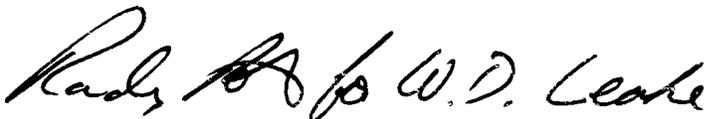
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The data from this study has received only a preliminary review that included comparison of the present data to the range of values for the historical controls. Statistical analysis will be performed for the final report. This additional analysis may change the preliminary summary of adverse effects listed above.

Our current MSD Sheet on the refinery stream tested in this study is being reviewed with these results in mind.

We are attaching the preliminary information on this study which was contained in a letter from the testing laboratory. EPA will be sent a copy of the final report once it is received by ARCO.

Sincerely yours,



William D. Leake

WDL/FJK/isc