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Interoffice Communication

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To W. V. Henry, VCM PB 8491, Lake Charles
From W. D. Broddle, Environmental Conser., Ponca City
Date September 5, 1980
Subject TOXIC LIMITS IN HUMANS
EXPOSED TO BENZENE

For BALTIMORE
Incident Report

The following information concerning the above subject was obtained from a literature review of benzene toxicology:

<u>Exposure (Conc./time)</u>	<u>Effects in Humans</u>	<u>Reference</u> (see attachment)
50-150ppm/Several hours	Headache, weariness, decreased appetite, red blood cells, monocytes, and eosinophils	1, 2
500ppm/Short interval	Dizziness, drowsiness, headaches, and nausea	1
1,500ppm/1 hour	Severe toxic effects	1
3,000ppm	Only tolerated for 1/2 to 1 hour	3, 7
7,500ppm/ 1/2 - 1 hour	Dangerous to life	1
20,000ppm (65mg/l) to 25,000ppm/5 to 10 min. or 15ml oral dose	May be fatal	4, 5, 6, 7, and 8

I hope the above information is useful, and please call if any questions arise.

W. D. Broddle

W. D. Broddle, Ph. D.
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cc:

Tom Grumbles, Houston

VVC 000012926

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