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TSCA Document Control Office (7408)
Office of Pollution Prevention and Toxics
Environmental Protection Agency
1200 Pennsylvania Avenue NW
Washington DC 20460



Attention: TSCA 8(e) Coordinator

RE: **8EHQ Number – 8EHQ-09-17401**
Tertiary Butyl Hydroperoxide (TBHP; CASRN 75-91-2) – Supplement to Subacute 5 Day Rat Inhalation Toxicity Range Finding Study

Dear Sir or Madam:

Lyondell Chemical Company (Lyondell), a LyondellBasell Industries company, hereby submits this letter pursuant 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 reportable. Information has been reported previously for this study and assigned 8EHQ Number - 8EHQ-09-1740. The new information for the previously submitted range-finding subacute 5-day inhalation toxicity study of tert-Butyl Hydroperoxide (TBHP), CASRN: 75-91-2, in male rats was not available at that time. Lyondell has now received this additional information and is hereby providing a summary to EPA. The following preliminary findings were observed:

<u>Exposure Level (TBHP)</u>	<u>Observations</u>
25 ppm	Moderate lesions in 3 regions of the upper airways
50 ppm	Severe lesions in 4 regions of the upper airway/trachea

The histopathological lesions are defined as epithelial degeneration, necrosis, inflammation, and squamous metaplasia.

This study was conducted by the Experimental Toxicology and Ecology Laboratory of BASF SE, Germany, for Lyondell.

A copy of the study final report will be forwarded upon its availability.

Should you have any questions or require additional details, please do not hesitate to call me at 713-309-7791, FAX at 713-951-1574 or by e-mail at betsy.duncan@lyondellbasell.com.

Sincerely,

Betsy Duncan
Business Consultant – Global Chemical Control
Lyondell Chemical Company

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