



DIVISION OF
CORPORATION FINANCE

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

August 23, 2013

Via E-mail

Karyn F. Ovelmen
Chief Financial Officer
LyondellBasell Industries N.V.
Stationplein 45
3013 AK Rotterdam
The Netherlands

**Re: LyondellBasell Industries N.V.
Form 10-K for Fiscal Year Ended December 31, 2012
Filed February 12, 2013
Form 10-Q for Fiscal Quarter Ended June 30, 2013
Filed July 26, 2013
File No. 1-34726**

Dear Ms. Ovelmen:

We have reviewed your response letter dated August 13, 2013, and have the following comments. In some of our comments, we may ask you to provide us with information so we may better understand your disclosure.

Please respond to this letter within ten business days by providing the requested information or by advising us when you will provide the requested response. If you do not believe our comments apply to your facts and circumstances, please tell us why in your response.

After reviewing the information you provide in response to these comments, we may have additional comments.

Form 10-K for Fiscal Year Ended December 31, 2012

7. Property, Plant and Equipment, Goodwill and Intangible Assets, page 89

1. We note the revised presentation of property, plant and equipment that you intend to provide in future filings in response to comment 11 in our letter dated July 19, 2013. While we appreciate the additional components you intend to provide, the range of useful lives is very broad for the manufacturing facilities and equipment component (i.e., 5 to 25 years) and represents 72% of the gross value of total property, plant and equipment as of December 31, 2012. As such, please provide a more disaggregated presentation for manufacturing facilities and equipment into smaller and more meaningful components. For example, we note your disclosures on pages 79-80 that major manufacturing equipment has a 25 years life, light equipment and instrumentation has a range of 5-15 years life, and major unit turnarounds have a range of 4-7 years life.

Ms. Ovelmen
LyondellBasell Industries N.V.
August 13, 2013
Page 2

Form 10-Q for Fiscal Quarter Ended June 30, 2013

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations, page 33
Results of Operations, page 34

2. We note your disclosures on pages 23 and 35 that your effective tax rate for fiscal year 2013 has been negatively impacted by an increase in earnings in jurisdictions with higher statutory tax rates. In future filings, please disclose the jurisdictions with the higher statutory tax rates and increased earnings.

You may contact Tracey Smith, Staff Accountant, at (202) 551-3736, or in her absence, me at (202) 551-3355, if you have questions regarding comments on the financial statements and related matters.

Sincerely,

/s/ Terence O'Brien

Terence O'Brien
Accounting Branch Chief