

DOW CHEMICAL CO /DE/
 Form 424B3
 May 29, 2012

The information in this preliminary pricing supplement is not complete and may be changed. This preliminary pricing supplement and the accompanying prospectus supplement and prospectus are not offers to sell these securities and are not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

Subject to completion

Preliminary Pricing Supplement dated

Filed under 424(b)(3), Registration Statement No. 333-164985

Pricing Supplement No. 117 - Dated Tuesday, May 29, 2012 (To: Prospectus Dated February 19, 2010, and Prospectus Supplement

Dated February 19, 2010)

| CUSIP Number | Principal Amount | Selling Price | Gross Concession | Net Proceeds | Coupon Rate | Coupon Frequency | Maturity Date | 1st Coupon Date | 1st Coupon Amount | Survivor's Option | Product Ranking |
|--------------|------------------|---------------|------------------|--------------|-------------|------------------|---------------|-----------------|-------------------|-------------------|------------------------|
| 26054LQQ9 | | 100% | 1.250% | | 2.600% | Semi-Annual | 06/15/2017 | 12/15/2012 | \$ 13.58 | Yes | Senior Unsecured Notes |

Redemption Information: Callable at 100.000% on 06/15/2013 and every coupon date thereafter

Joint Lead Managers and Lead Agents: BofA Merrill Lynch, Incapital LLC **Agents:** Citi, Merrill Lynch, Morgan Stanley, UBS Securities LLC, Wells Fargo Advisors, LLC

The Dow Chemical Company InterNotes will be subject to redemption at the option of The Dow Chemical Company, in whole on the interest payment date occurring on 06/15/2013 and on any interest payment date thereafter at a redemption price equal to 100% of the principal amount of the The Dow Chemical Company InterNotes plus accrued interest thereon, if any, upon at least 30 days prior notice to the noteholder and the trustee, as described in the prospectus.

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|-----------|--|------|--------|--|--------|-------------|------------|------------|----------|-----|------------------------|
| 26054LQR7 | | 100% | 1.450% | | 3.250% | Semi-Annual | 06/15/2019 | 12/15/2012 | \$ 16.97 | Yes | Senior Unsecured Notes |
|-----------|--|------|--------|--|--------|-------------|------------|------------|----------|-----|------------------------|

Redemption Information: Callable at 100.000% on 06/15/2013 and every coupon date thereafter

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trustee, as described in the prospectus.

| | | | | | | | | | |
|-----------|------|--------|--------|-------------|------------|------------|----------|-----|------------------------------|
| 26054LQS5 | 100% | 1.800% | 3.850% | Semi-Annual | 06/15/2022 | 12/15/2012 | \$ 20.11 | Yes | Senior Unsecured Notes |
|-----------|------|--------|--------|-------------|------------|------------|----------|-----|------------------------------|

Redemption Information: Callable at 100.000% on 06/15/2013 and every coupon date thereafter

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Trade Date: Monday, June 4, 2012 @ 12:00

The Dow Chemical Company

PM ET Settle Date: Thursday, June 7, 2012

The Dow Chemical Company

The Dow Chemical Company InterNotes

2030 Willard H. Dow Center

Minimum Denomination/Increments:
\$1,000.00/\$1,000.00

Midland MI 48674

Initial trades settle flat and clear SDFS: DTC Book
Entry

only DTC Number 0235 via RBC Dain Rauscher
Inc

If the maturity date or an interest payment date for any note is not a business day (as term is defined in prospectus), principal, premium, if any, and interest for that note is paid on the next business day, and no interest will accrue from, and after, the maturity date or interest payment date.

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