

DOW CHEMICAL CO /DE/
 Form 424B3
 November 14, 2011

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 November 14, 2011

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

Pricing Supplement No. 100 Dated November 14, 2011

(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 | 1 st Coupon Date | 1 st Coupon Amount | Survivor s Option | Product Ranking |
|--------------|------------------|---------------|------------------|--------------|-------------|------------------|---------------|-----------------------------|-------------------------------|-------------------|------------------------|
| 26054LNM1 | 100.000% | 100.000% | 1.250% | | 2.250% | SEMI-ANNUAL | 11/15/2016 | 05/15/2012 | \$ 10.63 | Yes | Senior Unsecured Notes |

Redemption Information: Callable at 100% on 11/15/2012 and every coupon date thereafter.

Joint Lead Managers and Lead Agents: Incapital, LLC, BofA Merrill Lynch 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 any time on or after 11/15/2012 at a redemption price equal to 100% of the principal amount of 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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|--------------|------------------|---------------|------------------|--------------|-------------|------------------|---------------|-----------------------------|-------------------------------|-------------------|------------------------|
| 26054LNN9 | 100.000% | 100.000% | 1.450% | | 3.500% | SEMI-ANNUAL | 11/15/2018 | 05/15/2012 | \$ 16.53 | Yes | Senior Unsecured Notes |

Redemption Information: Callable at 100% on 11/15/2012 and every coupon date thereafter.

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|--------------|------------------|---------------|------------------|--------------|-------------|------------------|---------------|-----------------------------|-------------------------------|-------------------|------------------------|
| 26054LNP4 | 100.000% | 100.000% | 1.800% | | 4.250% | SEMI-ANNUAL | 11/15/2021 | 05/15/2012 | \$ 20.07 | Yes | Senior Unsecured Notes |

Redemption Information: Callable at 100% on 11/15/2012 and every coupon date thereafter.

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Trade Date: Monday, November 21, 2011 @12:00 PM ET

The Dow Chemical Company

Settle Date: Friday, November 25, 2011

The Dow Chemical Company InterNotes

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

Initial trades settle flat and clear SDFS: DTC Book Entry only

The Dow Chemical Company

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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