



A SOLUTION FOR REFINERIES /

## The highest sulfur content with ideal decomposition for your catalyst activation

DMDS Evolution® E2 is the most effective sulfiding agent to be used for *in-situ* hydroprocessing catalyst activation during startup of the unit. It is easy to pump and fully soluble in any hydrocarbon.

The 68% of sulfur present in DMDS Evolution® E2 are efficiently converted into H<sub>2</sub>S on the catalyst under standard sulfiding conditions, it reduces coking phenomena and contributes to maximize the catalyst activity.

### Your standard solution for an easy sulfiding

#### ❖ Liquid over a wide range of temperature

DMDS remains liquid for an **easy injection** over a wide range of process temperature (from -85°C to 109°C).

#### ❖ High solubility

DMDS evolution® E2 shows the **best solubility** in hydrocarbons for a **perfect dispersion**, allowing the homogenous reaction on all hydrogenation catalysts.

#### ❖ Clean and ideal decomposition profile for sulfiding

DMDS Evolution® E2 provides **early decomposition into H<sub>2</sub>S** from 180°C and fully decomposes at 230°C and above. The H<sub>2</sub>S released reacts immediately, ensures the best catalyst activation levels, and finally improves hydroprocessing units profitability.

#### ❖ Outstanding performance with superior scent

DMDS Evolution® E2 is a breakthrough formulation for outstanding odor control, providing a pleasant fragrance and improving the user experience.

#### ❖ Approved by all catalyst manufacturers and technology licensors

With **more than 300 sulfiding operations per year**, DMDS Evolution® E2 references is available for any unit type and technology.

Arkema offers its expertise with Careflex® service that includes top quality equipment and dedicated and flexible teams to handle and inject DMDS®.

Careflex® provides refineries with the benefits of an optimal on time sulfidings with DMDS Evolution® E2.



## 230 °C

The lowest temperature for a clean decomposition into H<sub>2</sub>S

## 68%

Dimethyl Disulfide shows the highest sulfur content available on the market

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <http://www.arkema.com/en/products/product-safety/disclaimer/index.html>  
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