

News Release

Celanese Corporation
222 West Las Colinas Blvd.
Suite 900N
Irving, Texas 75039

Deeper Results in Mining Productivity from Celanese MIBC Frother Chemistry

Celanese offers an industry-leading product to separate valuable minerals from waste

DALLAS (April 23, 2014) – The appetite for metals and minerals is growing. As demand increases with the growth in global population and the emergence of new products and technologies, the supply of easy-to-extract ores is being exhausted. This imbalance cannot be addressed through natural geological processes that create mineral deposits.

However, through intermediate chemistry products developed by Celanese Corporation (NYSE: CE), a global technology and specialty materials company, mining companies can see greater yields from their operations through Celanese's acetone derivative product known as Methyl Isobutyl Carbinol (MIBC), a preferred *frother* of choice for the mining of ores, such as copper and molybdenum sulfide, as well as coal.

Frothing, also known as *froth flotation*, is the process of selectively separating hydrophobic valuable minerals from hydrophilic waste gangue. In its simplest form, froth flotation is a method where minerals can be "skimmed" from the surface of "slurry" that is "foamed" with the assistance of specific chemicals, water and air bubbles.

Celanese, in collaboration with Central South University in China, conducted a research program comparing the performance of different frother agents. The research study compared two copper ore samples from Yunnan and Inner-Mongolia China and characterized each by their physical properties. Celanese MIBC as well as other frother agents were tested measuring copper recovery rate and copper concentrate grade. For both copper ores, MIBC outperformed other frothers tested in terms of copper recovery rate and copper concentrate grade. A white paper entitled "[MIBC: The preferred frother of choice for many sulfide ores and coals](#)" is available for download from www.Celanese.com detailing the research study data and results.

"Celanese's MIBC is a preferred frother of choice for the mining industry because it can significantly contribute to the overall recovery rate and concentration grade in the flotation processes," said Krista Myers Foley, director of the specialty derivatives business of Celanese. "Using MIBC as a frothing agent – or as a component in a blended solution – offers mining companies an industry-leading way to separate valuable minerals from waste and increase both yield and efficiency of mineral recovery efforts."

"We continue to evaluate the performance of MIBC as a frothing agent and are beginning to review potential investments in addressing common concerns over MIBC – such as improving the flash point and reducing odor," said Seth Summerlin, director of new business development for the specialty derivatives business of Celanese. "We expect there to be continued interest in MIBC as a critical frother component and we want to continue to be a leader in understanding how MIBC can contribute to the economic success of mining companies."

Additional MIBC information and resources

For more information and downloadable resources about MIBC and Celanese's advanced chemistry technology for frothing solutions to the mining industry, visit www.celanese.com/MIBC.

About Celanese

Celanese Corporation is a global technology leader in the production of differentiated chemistry solutions and specialty materials used in most major industries and consumer applications. With sales almost equally divided between North America, Europe and Asia, the company uses the full breadth of its global chemistry, technology and business expertise to create value for customers and the corporation. Celanese partners with customers to solve their most critical needs while making a positive impact on its communities and the world. Based in Dallas, Texas, Celanese employs approximately 7,400 employees worldwide and had 2013 net sales of \$6.5 billion. For more information about Celanese Corporation and its product offerings, visit www.celanese.com or our blog at www.celaneseblog.com.

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Contacts:

Investor Relations

Jon Puckett
Phone: +1 972 443 4965
Jon.Puckett@celanese.com

Media

W. Travis Jacobsen
Phone: +1 972 443 3750
William.Jacobsen@celanese.com

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