Opportunities in Production of Monochloroacetic Acid (MCAA)

Description:

Opportunities in Production of Monochloroacetic Acid (MCAA). An essential ingredient in the Chemical Industry

Monochloroacetic Acid (MCAA) is a specialty organochlorine compound, also known as chloroacetic acid. It is the building block in organic synthesis, and is hence used in the production of various chemical compounds, drugs, and agrochemicals. Significant amount of MCAA is consumed for the production of carboxymethylcellulose (CMC), thioglycolic acid, USP grade glycine, and technical grade glycine, which is a major precursor to the production of glyphosate.

Monochloroacetic acid is a colorless, crystalline, water-soluble compound obtained by the reaction of acetic acid with chlorine. It is used to manufacture versatile intermediates required to synthesize chemicals such as carboxymethyl cellulose (CMC), 2, 4-D, glycine, thioglycolic acid, synthetic caffeine and barbiturates. Monochloroacetic acid is a halogenated derivative of acetic acid that is used as a building block in organic synthesis. It exists in three crystal modifications: alpha, beta and gamma. Commercial MCA is produced in the alpha form and is available as flakes or in water solution. Major end-user industries for monochloroacetic acid include oil drilling, personal care, agrochemicals, construction and dyes.

Monochloroacetic acid is used on a large scale in the production of carboxymethyl cellulose. The extensive use of carboxymethyl cellulose in oil drilling is forecast to drive the global monochloroacetic acid market. The rising demand for agrochemicals such as glyphosate is also expected to augment the monochloroacetic acid market. However, the manufacturers of monochloroacetic acid are constantly challenged by the volatility of the prices of raw materials such as methanol and acetic acid. This will curtail the growth of the market. Chloroacetic acid is used widely in various activities in mining. The rising taconite and iron ore mining activities will create new opportunities for the global monochloroacetic acid market.

Monochloroacetic acid (MCA) is broadly used in chemical industries in the manufacture of carboxymethyl cellulose (CMC). Hence, the demand for CMC is expected to rise exponentially due to an increase in industrial applications. Moreover, rising population and increasing demand for agricultural products is expected to trigger growth of monochloroacetic acid. Increasing demand from glyphosate is also likely to boost the demand for monochloroacetic acid during the years to come.

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Keywords: Manufacture of Monochloroacetic Acid, Monochloroacetic Acid Manufacturing Process, Monochloroacetic Acid Uses, Process for Preparing Monochloroacetic Acid, Monochloroacetic Acid, Chloroacetic Acid, Monochloroacetic Acid Production, Monochloroacetic Acid (Mca) Manufacturing Plant, Monochloroacetic Acid Production Process, Process for Production of Monochloroacetic Acid, Start MCA Production in India, Mono Chloro Acetic Acid, Monochloroacetic Acid Manufacture, Production of Chloroacetic Acid, Chem

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