

Global Trimethyl Indium (CAS 3385-78-2) Market Outlook 2016-2021

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Abstracts

Trimethyl indium or Trimethylindium (abbr. TMI or TMI_n), is the preferred organometallic source of indium for metalorganic vapour phase epitaxy (MOVPE) or metal organic chemical vapor deposition (MOCVD) of indium-containing compound semiconductors, such as InP, InAs, InN, InSb, GaInAs, InGaN, AlGaInP, AlInP, AlInGaNP, etc.

Trimethylindium is produced as white/colorless, crystalline solid/needle (melting point 88°C, boiling point 136°C). Trimethylindium is pyrophoric (ignites spontaneously upon contact with air), and its decomposition is often found to be uncontrollable as the temperature of its surrounding exceeds its melting point (i.e. > 88°C) and reaches 101 °C and above. Trimethylindium is also reported to exhibit autocatalytic behavior during its thermal decomposition. Trimethylindium therefore needs to be handled with the utmost care and caution, e.g. stored in preferably cool, dry place at 0-25°C, and operating temperatures under 50 °C in order to avoid deterioration. Trimethylindium also reacts extremely violently with oxidizers and polyhalogenated compounds (such as CCl₄ or CBrCl₃), with which Trimethylindium is therefore incompatible. Hence, mixtures of Trimethylindium with oxidizers and/or polyhalogenated compounds must be avoided as they are potentially dangerous and explosive.

The trimethylindium industry has changed significantly in recent years through trans-national consolidations and co-operations. Much of the potential is in emerging markets, especially China. Emerging markets represent more than xx% of the worldwide market today while EMEA and North America account for most of the remainder. This has opened many markets to competition, consolidation and technical progress.

The global trimethylindium production, which measures output worldwide, was expected to reach xx kilograms in 2016 with an increase of xx% from its year-earlier level. The

global trimethylindium market size is estimated to grow from USD xx million in 2011 to USD xx million by 2016, at an estimated CAGR of xx% between 2011 and 2016. With regards to this, key players of trimethylindium industry are expected to find potential opportunities in this market.

The global trimethylindium market report profiles some of the key technological developments in the recent times. It also profiles some of the leading players in the market and analyzes their key strategies. The competitive landscape section of the report provides a clear insight into the market share analysis of key industry players. The major players in the global trimethylindium market are AkzoNobel, Jiangxi Jiayin, Jiangsu Nata, Sigma-Aldrich, Dow, Baoding Botai, Argosun, Albemarle, Chemtura, UBE, etc.

The global trimethylindium industry is relatively concentrated, with the market share of top 10 trimethylindium producers at xx%.

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