Global Trichlorosilane Market: Introduction

Trichlorosilane also known as TCS is a volatile and colorless organic compound. It contains hydrogen, silicon, chlorine with chemical formula HSiCl3. It is used as a raw material in the production of polycrystalline silicon metal in semiconductor and solar cell industries. Commonly, it is directly sold to the semiconductor end user for their applications.

Global Trichlorosilane Market: Dynamics

Increasing adoption of trichlorosilane as a raw material for the production of solar photovoltaic and electronics industry is a major factor driving growth of the global trichlorosilane market. In addition, growing usage of renewable energy sources, coupled with growth semiconductor and electronics industry are some of the factors anticipated to support growth of the global trichlorosilane market to a certain extent.

However, the trichlorosilane may react explosively with some of the oxidizing agents under the influence of catalyst or heat is a challenging factor that may affect growth of the trichlorosilane market. Nevertheless, growing adoption of solar photovoltaic cells or solar panels among end user, owing to increasing inclination towards usage of solar energy is a factor expected to augment growth of the global market over the forecast period.
Global Trichlorosilane Market Analysis, by Type

Among the type segments, the hydrochlorination process segment is expected to account for major revenue share and is expected to maintain its position over the forecast period. The hydrochlorination process segment is expected to register CAGR of over 5.9%. The direct chlorination process segment expected to register lucrative growth in terms of revenue in the near future.

Global Trichlorosilane Market Analysis, by Application

Among the application segments, the polysilicon segment is expected to account for a major share in terms of revenue and is expected to register lucrative growth over the forecast period. The polysilicon segment is expected to register CAGR of over 6.3%. The chemical intermediate segments expected to accounts for a second-highest share in terms of revenue in the near future.

Global Trichlorosilane Market Analysis, by Region

Currently, the market in Asia Pacific dominates the global market in terms of revenue and is expected to maintain its dominance over the forecast period. Growing electronics and semiconductor in the industry in countries such as China, India, South Korea, Japan, etc. is a key factor driving growth of the trichlorosilane market in North America. China is a key producer and consumer of trichlorosilane is also a factor supporting growth of the target market in this region. In addition, demand for technologically advanced instruments or devices, growing population, rising disposable income among customers are also factors expected to boost growth of the trichlorosilane market over the forecast period.

The market in North America and Europe are expected to register lucrative growth in terms of revenue in the near future. Growing usage of trichlorosilane for production of polymer and semiconductors is a factor fueling growth of the target market in these regions. Growing adoption of manufacturing chemicals is a factor propelling growth of the target market in Central & South America and Middle East & Africa. The market in Central &
South America and Middle East & Africa is expected to register average growth in terms of revenue in the next 10 years.

**Global Trichlorosilane Market Segmentation:**

**Global Trichlorosilane Market Segmentation, by Type:**
- Direct Chlorination Process
- Hydrochlorination Process

**Global Trichlorosilane Market Segmentation, by Application:**
- Polysilicon
- Chemical Intermediate
- Others

**Global Trichlorosilane Market Segmentation, by Region:**
- North America
- Europe
- Asia Pacific
- Central & South America
- Middle East & Africa

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