

United States Sodium Cyanide Market Report and Forecast 2025-2034

Market Report | 2025-07-15 | 134 pages | EMR Inc.

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Report description:

The United States sodium cyanide market size reached a value of around USD 131.79 Million in 2024. The market is expected to grow at a CAGR of 4.10% between 2025 and 2034, reaching a value of around USD 196.97 Million by 2034.

Key Trends in the Market

Sodium cyanide is an inorganic substance and a cyanide salt with the chemical formula NaCN which appears as a solid that is white, crystalline, and water soluble. It acts as a test reagent for chemoreceptor functions and is used in various industrial processes. Sodium cyanide is also utilised to chelate compounds, clean metals, extract silver and gold, and in electroplating. It is highly poisonous, toxic, corrosive, and can prove fatal if it comes into contact with skin, is swallowed, or inhaled.

- Sodium cyanide is widely used in the mining sector as gold and other precious metals are extracted using sodium cyanide as a primary mining chemical. Hence, the United States sodium cyanide market expansion is being driven by the expanding mining operations as increased mining is being encouraged in the country by the rising demand for precious metals like gold.

- The market is also being propelled by the expanding demand for various chemicals, such as chemical intermediates and other materials. Another factor boosting market expansion is the usage of sodium cyanide in electroplating applications.

- With the high level of toxicity of sodium cyanide, and the dangers it poses to human handlers, development is under way of safer methods of handling and utilising sodium cyanide that utilises its advantages while protecting the environment and personnel involved.

United States Sodium Cyanide Market Segmentation

The EMR's report titled "United States Sodium Cyanide Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

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Market Breakup by Form

- Powder
- Liquid (Solution)

Market Breakup by End Use

- Mining and Metallurgy
- Chemical Intermediate
- Others

Market Share by Form

By form, the powder segment accounts for a sizable share of the United States sodium cyanide market as sodium cyanide is produced in powder form, which can then be mixed with liquid as needed at the time of application. Due to its toxic nature, handling and managing sodium cyanide is easier in powder form and transportation and logistics also becomes easier. Insecticides, electroplating baths, metal cleaning solutions, metal hardening, and the extraction of metal ores all employ it in solid or solution form. Although sodium cyanide applications commonly use the compound in liquid (solution) form, it is often purchased and shipped as a powder, and then mixed with a solution at the time of application.

Market Share by End Use

The mining and metallurgy end use sector accounts for a sizable share of the United States sodium cyanide market, particularly in the extraction of gold and silver. It is one of the most efficient, simple to use, and ecologically friendly processes for processing gold. From their ores, silver or gold is extracted using sodium cyanide solution.

The cyanide solution serves as a reducing agent in the cyanide process to convert the gold and silver compounds found in the ores into their metallic states, which is how gold and silver are extracted from their native ores. As well as being used to make colours and hydrocyanic acid, it is also used to clean metals.

Due to favourable policy changes, the mining sector is also expanding strongly in the United States, which is driving the United States sodium cyanide market. The market will further expand due to the increased usage of metal mining for the extraction and purification of metals as well as the rising demand for precious metals like gold and silver.

Competitive Landscape

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model, along with giving a SWOT analysis. The report gives a detailed analysis of the following key players in the United States sodium cyanide market, covering their competitive landscape and the latest developments like mergers, acquisitions, investments, and expansion plans.

Cyanco International, LLC

Cyanco International, LLC, headquartered in Texas in the United States, provides clients in the gold and silver mining industry with mineral extraction chemicals on a global scale. The company, which was established in 1990, is focused on manufacturing and selling sodium cyanide in solution and solid forms. Cyanco helps mines grow sustainably by offering technical support for essential

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sodium cyanide handling, analysis, and detoxification procedures in addition to high-quality supplies and worry-free delivery.

Orica Limited

Orica Limited, with its headquarters in Victoria, Australia is one of the top providers of infrastructure and mining solutions globally. It sustainably mobilises the resources of the ground through the manufacturing and supply of explosives, mining chemicals, blasting systems, and geotechnical monitoring, as well as cutting-edge digital solutions and a wide range of services. One of the biggest producers of sodium cyanide for use in the mining sector, Orica was founded in 1874.

Sasol Limited

Sasol Limited is a multinational chemicals and energy corporation that was founded in 1950. The company, which has its headquarters in Johannesburg in South Africa, provides liquid fuels, chemicals, and low-carbon electricity. Sasol specialises in mining, international exploration and production, energy, base chemicals, performance chemicals, and group functions.

Other market players include Draslovka, and Univertical International, among others.

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