N-Propyl Acetate – A key Commodity for Various Chemical Industries

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New York, New York City, Aug 5, 2021 (Issuewire.com) - N-PROPYL ACETATE

N-Propyl Acetate is a chemical compound also known as Propyl Ester, 1-Propyl Acetate, Propyl Ethanoate, 1-acetoxypropane, formed by the esterification of acetic acid and n-propanol. It is a volatile, colorless, highly flammable, toxic liquid with a fruity aroma. Propyl Acetate is miscible with most of the organic solvents and is also an active solvent for nitrocellulose, cellulose acetate butyrate, polyester, alkyd, and acrylic resins, but it is only sparsely soluble in water. Owing to these properties of n-Propyl Acetate, it has wide applications as a solvent in various industries including printing, paints, coatings, automotive, pharmaceuticals, chemicals, food and beverages, cosmetics, and fragrances.

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N-Propyl Acetate comes in different grades including reagent and technical grade, agricultural and pharmaceutical grade, and optical grade. The N-Propyl Acetate market is bifurcated into Purity≥99.5% and Purity≥ 99.0%. The purity≥ 99.0% segment owns the leading market share of Propyl Acetate.

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APPLICATIONS OF N-PROPYL ACETATE:

- **Paints & Coatings:** Due to its strong ability to dissolve organic and synthetic solvents and its tendency to thin other solvents, it is used in the manufacturing of Paints and Coatings.

- **Wood lacquers:** It has the capacity to dissolve a wide range of resins (e.g., cellulose nitrate, acrylates, alkyd resin), which also makes it extremely suitable as a solvent for wood lacquers and industrial finishes.

- **Pharmaceuticals:** It is used as an intermediate in the production of pharmaceutical compounds. It also acts as a germicide and is therefore used in sanitizers and disinfectants along with ethanol.

- **Cosmetic/personal care solvent:** Alkyl acetates are usually used as cosmetic ingredients, with a wide range of functions as fragrances, solvents, or skin-conditioning agents, depending on the specific ingredient.

- **Fragrance solvent:** It is also used as a solvent in perfumes and is found as an ingredient in aerosol sprays.

- **Food and Beverages:** It is also used as a flavoring additive because of its fruity odor, which is like pears.

- **Printing inks:** It is used as a solvent in printing inks mainly for flexographic and screen-printing inks which are prominently used in printing postcards, magazines, and cardboard containers.

N-PROPYL ACETATE HANDLING AND STORING

Propyl Acetate should be handled with proper care and attention. Protective gear such as goggles, water-resistant gloves, and attire should be worn to avoid contact with skin and eyes. There must be an

implementation of sufficient natural or exhaust ventilation coupled with proper respiratory protection to avoid the exposure of vapors.

It must be stored in a tightly-closed container, away from direct sunlight or heat, in a well-ventilated space. Opened container should be resealed and stored properly to avoid any kind of leakage as this is a highly inflammable gas with toxic vapors.

HAZARD AND SAFETY

According to the National Fire Protection Association, the health rating and fire rating of N- Propyl Acetate is 1 & 3, respectively. It indicates that upon prolonged exposures, it can cause irritation, as well as inhalation of its vapors, which is also toxic. Moreover, Propyl Acetate is highly flammable and can easily catch fire by heat or sparks under environmental conditions. It is harmful if swallowed.

If exposed for long-duration there can be potential health effects like skin and eyes irritation coupled with pain and redness in the eyes.

First Aid If Exposed:

For Eyes: Rinse with plenty of water till gets better. Refer to doctor if irritation persists

For Skin: Wash the affected area with water and soap. Refer to doctor if irritation persists

Inhalation: Fresh Air and Take Rest

Ingestion: Consult Doctor

N-PROPYL ACETATE MARKET:

The major share of global demand for n-propyl acetate is held by the Asia Pacific region, because of increasing construction, rapid growth, and strong establishment of industries such as chemicals, printing ink, and food & beverages in the region, especially in China and India. N-propyl market finds a significant place in the market due to its high demand in industries involved in paints, coatings, and printing inks. Moreover, the cosmetic and food and beverage industry is witnessing exponential growth over the past decade. This exponential growth has driven the global propyl acetate market as manufacturers are progressively utilizing this chemical in the production of their products such as perfumes, deodorants, etc., and utilizing it as a flavoring agent.

North America and Europe are prominent regions for the Propyl Acetate market as both these advanced regional markets collectively account for approximately half of the total demand because of the presence of the leading chemical industries in the regions. Moreover, significant growth in the Propyl Acetate market has been shown by Middle East Asia in the past few years and is likely to witness potential growth in the forecast period.

EFFECT OF COVID-19 PANDEMIC

Due to the impact of the COVID-19 pandemic, the decline in the demand for N-Propyl Acetate was witnessed among other chemicals owing to nationwide lockdowns and subsequent disruptions in supply chains. However, overall decent growth has been observed in its demand since the industries got operational after the lockdowns. Additionally, surging demand for advanced coating material in the

automotive industry is expected to accelerate the market for N- Propyl Acetate in the forthcoming years.

LEADING PLAYERS:

BASF Group, Du Pont Inc., DOW, Eastman Chemical Company, Solvay S.A., Showa Denko K.K., Sankyo Chem., Daicel Co., Sasol corporation, Shiny Chemical Industrial Co. Ltd., Zibo Nuoao Chem. Co. Ltd., *Wujiang* Shuguang *Chemical* CO. Ltd., Ningbo Yongshun, and Tosoh corporation are some leading players in the N-Propyl Acetate market.

CONCLUSION:

Propyl Acetate Market is expanding at a faster pace with considerable growth rates over the past few years and to grow significantly in the coming years owing to the increasing demand for N-Propyl Acetate as a solvent or an intermediate from various end-use industries such as Chemicals, Paints, Automotive, Pharmaceuticals, Cosmetics, Food & Beverages, and Others. Moreover, the expansion of capacity of the N-Propyl Acetate plant by Showa Denko (SDK), Tokyo has increased the production of N-Propyl Acetate. It is used in solvents for ink for special gravure printing which is extensively utilized for exterior packaging films for confectionary are likely to create opportunities in the n-propyl acetate market in the upcoming years.

FAQs:

Which are the different grades of N-Propyl Acetate?

The different grades of N- Propyl Acetate are Reagent and Technical Grade, Agricultural and Pharmaceutical Grade, and Optical Grade.

Which are the major applications for N-Propyl Acetate?

The major applications for N-Propyl Acetate include Paints, Coatings, and Printing inks.

Who are the key players in the Global N-Propyl Acetate market?

BASF Group, Eastman Chemical Company, Du Pont Inc., DOW, Solvay S.A., Showa Denko K.K., Sankyo Chem., Daicel Corporation, Sasol corporation, Shiny Chemical Industrial Co. Ltd., Zibo Nuoao Chem. Co. Ltd., Wujiang Shuguang Chemical CO. Ltd., Ningbo Yongshun, and Tosoh corporation are some leading players in the N-Propyl Acetate market.

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