

Life Science Chemicals



Acetyls

Jubilant offers a basket of Acetyls products, Specialty chemicals like Acetaldehyde, Acetic Acid, Ethyl Acetate, Acetic Anhydride, MCAA (Monochloroacetic Acid), SMCA (Sodium Monochloro Acetate), VAM (Vinyl Acetate Monomer), and n-Butyl Acetate. Jubilant is the largest producer of Acetaldehyde from in-house alcohol-based production process, which it uses captively, and is also the largest consumer of Acetic Acid in India.

Jubilant's key advantages lie in its 30 years of chemistry knowledge, easy availability of feedstock for its distilleries and Acetyls production sites at Gajraula (UP) & Nira (Maharashtra), which are located in the largest sugarcane producing states of India providing Alcohol at competitive prices, which insulates it from the vagaries of commodity cost cycles.

Other advantages are ample availability of Acetic Acid in Asia region, manufacturing excellence which provides higher efficiencies in entire Acetyls value chain and Jubilant's strong customer relationships. Acetyls caters

to a diverse range of industries from Pharma, Crop Protection, Food & Beverages, Textiles, Packaging, Adhesives, Aromatics etc.

Both the manufacturing facilities of the Company adopt highest standards of safety and are ISO9001 / OHSAS18001 certified. Jubilant focuses on customizing the products through superior quality and on-time delivery. Six Sigma initiatives are adopted where the Company constantly benchmarks and improves the product line-up to enhance efficiency measures.

Global Positions

3rd largest manufacturer of Acetaldehyde
9th largest in Acetic Anhydride
10th largest in Ethyl Acetate

Product Portfolio

Acetaldehyde– Jubilant is the **3rd largest manufacturer** of Acetaldehyde in the world. The most common derivatives of Acetaldehyde are the Synthetic Pyridines, Pentaerythritol, Acetate Esters (Ethyl Acetate, Isobutyl Acetate), 1,3-Butylene Glycol, Peracetic Acid & Glyoxal. Jubilant is the largest global producer of Acetaldehyde from Ethyl Alcohol route. The Company derives its competitive advantage through proprietary technology and proximity of its plants to **high quality-low cost** feedstock.

Acetic Acid– Jubilant is the **largest consumer** of Acetic Acid in India. Acetic Acid is one of the most widely used chemicals in the world and a key raw material for the production of a wide number of products. Jubilant also sells Acetic Acid for PTA applications

and to meet the needs of manufacturers of Printing Ink, Pharma, Aromatics, Food etc.

Ethyl Acetate– Ethyl Acetate is another important downstream product of Ethyl Alcohol and Acetic Acid. Jubilant is the **10th largest manufacturer** of Ethyl Acetate in the world and the largest domestic player. It is an important ingredient in diverse industries such as Paints and Coatings, Adhesives, Packaging, Printing, Pharmaceuticals and Synthesis.

Acetic Anhydride– Jubilant is **9th largest global manufacturer** of Acetic Anhydride and enjoys more than 60% domestic market share. It is an important ingredient for industries like Cellulose Acetate, Dyes, Pharmaceuticals, Agrochemicals and also finds application as an intermediate in the making of detergents.

Monochloroacetic Acid (MCAA) / Sodium Monochloro Acetate (SMCA)– Jubilant is the only integrated producer manufacturing Monochloroacetic Acid/ Sodium Monochloro Acetate by utilising Acetic Acid. Jubilant commands a 15% market share in India, as one of the largest producers with its internal requirements. Monochloroacetic Acid / Sodium Monochloro Acetate are used in industries as diverse as Surfactants, Herbicides, Vitamins, Pharmaceuticals, Organic Chemicals, EDTA, Oil Drilling, Detergents, Food, Textiles and Plastic Additives

Vinyl Acetate Monomer (VAM)- It is mainly used in-house in Polyvinyl Acetate (PVA) and Emulsions, Adhesives, which has applications in water-based paints, adhesives, food, acrylic fibres, paper coatings and non-woven binders. Polyvinyl alcohol (PVOH), used in packaging film and glass laminates, is the second-largest use. The remaining volumes go into Ethylene Vinyl Acetate (EVA) Polymers, Ethylene Vinyl Alcohol (EVOH) Barrier resins and Polyvinyl Butyral (PVB).

n-Butyl Acetate- Butyl Acetate's major application is in the manufacturing of various paints and coatings for the furniture, construction and automotive sectors. It is also used in printing inks and aerosol sprays and as an artificial flavouring in the foods, fragrance and cosmetic industries. It is also employed as an extraction and processing solvent in the chemical and pharmaceutical industries.

Speciality Gases

Carbon Dioxide (CO₂) and mixtures of CO₂ + Ethylene Oxide (ETO) are the two products comprising specialty gases portfolio of the company. CO₂ is available as a by-product in the manufacturing process of alcohol from Molasses.

Product Offerings

Liquid Carbon Dioxide (CO₂) – Used in Healthcare and Beverages etc.

Range offered in Carbon Dioxide:

- Food & Beverage Grade
- Engineering Grade for Fire Extinguishers, Welding (MIG)
- Pharma & Dry Ice Manufacturing.
- Horticulture & Agriculture Industry.

Ethylene Oxide Mixture (ETO) – Healthcare, Metal Furnishings, Textiles etc.

We offer various ETO, CO₂ mixtures for disposable medical sterilization:

- 90% Ethylene Oxide +10% Carbon Dioxide
- 10% Ethylene Oxide +90% Carbon Dioxide
- 20% Ethylene Oxide +80% Carbon Dioxide
- 13% Ethylene Oxide +87% Carbon Dioxide

The Company also has the capability to manufacture Ethylene Oxide Mixtures of other combinations as per the customer requirements.



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LIFESCIENCES

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