

Welcome to...



**MANUFACTURING, RESEARCH
AND DEVELOPMENT
CENTER**

Welcome...

It is a real pleasure to have you as our guest on this visit to our Baton Rouge Manufacturing Plant. We hope you will find your visit both enjoyable and worthwhile.

Ethyl Corporation

FACTS SHEET
ETHYL CORPORATION IN BATON ROUGE, LOUISIANA

Total Employment: 3,400

Total Annual Payroll: \$77,000,000

MANUFACTURING, RESEARCH, AND DEVELOPMENT CENTER

Area: 200 Acres

MAJOR FUNCTIONS:

MANUFACTURING DEPARTMENT

Responsible for production of:

Petroleum Chemicals

"Ethyl" Antiknock Compounds

TEL

TML

MLA

TELMEL

Industrial Chemicals

Caustic Soda

Chlorinated Hydrocarbons

Ethyl Chloride

Ethylene Dichloride

Methyl Chloride

Vinyl Chloride

Chlorinated Solvents

Trichloroethylene

Perchloroethylene

Chlorine

Sodium

Sodium Lead Alloy

Plastics

PVC (Polyvinyl chloride)

Suspension Resins

PVC Emulsion Resins

PVC Compounds

Specialty Polymer Resins

Organizationally subdivided into:

Operations

TEL, Sodium, Hydrocarbon, and PVC Areas

Maintenance & Construction)

Maintenance, On-Plant Construction)

Administration)

Environmental & Product Quality Control)

Finance)

Industrial Engineering)

Power)

Production Planning)

Public Relations)

Safety)

Stores & Services)

These groups all have plant-wide application
of their respective organization's functions.

RESEARCH AND DEVELOPMENT DEPARTMENT

Departmental headquarters. Chemical research on new and improved processes and new products, process development, process design, technical services to manufacturing and sales, and patents.

ENGINEERING DEPARTMENT

Project engineering and engineering services, which includes inspection, instrument development, mechanical development, and technical services.

PURCHASING AND TRAFFIC DEPARTMENT

Some Company-wide traffic functions. Plant purchasing.

EMPLOYEE RELATIONS DEPARTMENT

Labor relations, personnel services, training and testing, employee benefits, wage and salary administration.

MEDICAL

Physical Examinations, treatment of on-the-job disease and injury (occupational and non-occupational), health counseling and rehabilitation.

PRINCIPAL RAW MATERIALS

Pig Lead

Ethylene

Chlorine

Salt Brine

Electricity

Methanol

Ethylene Dibromide

Vinyl Acetate

Vinyl Plasticizers & Stabilizers

ETHYL TOWER

Executive Offices:

Office of the President

Aluminum Group

Central Finance

Central Purchasing & Traffic

Central Systems & Data Processing

Chemicals Group

Industrial Chemicals Division

Petroleum Chemicals Division

Commercial Development

Corporate Marketing

Corporate Planning

Corporate Pricing

Employee Relations

Ethyl International Group

International Industrial Chemicals Division

International Petroleum Chemicals Division

International Oil and Gas Division

Law Department

Manufacturing Department

Medical

Plastics Group

Dispenser Products Division

IMCO Container Products

Division

Metal Products Division

Molded Products Division

Pipe Products Division

Polymer Products Division

VisQueen Film Products

Division

Research & Development Dept.

Toxicology & Industrial

Hygiene Department

ONE AMERICAN PLACE

Engineering Department

E-06833

ETC 00095

FACTS SHEET
ETHYL CORPORATION

HISTORY:

Ethyl Corporation (Virginia) results from the 1962 acquisition of Ethyl Corporation (Delaware) by Albemarle Paper Manufacturing Company. Albemarle, which had been founded in Richmond, Virginia, in 1887, purchased Ethyl in 1962 from General Motors and Standard Oil Company (N.J.), which had founded Ethyl in 1924. Following the acquisition, Ethyl Corporation (Virginia) diversified rapidly through acquisitions and adding new product lines. In 1968, Ethyl sold substantially all the business and assets of Albemarle Paper to a midwest paper manufacturing firm.

ORGANIZATION:

Historically known as a one-product, one-industry company, Ethyl Corporation today is a diversified manufacturer of petroleum and industrial chemicals, plastics, aluminum and energy-related products. The Company has facilities around the world and employs approximately 16,000 people. It operates more than 60 plants, most of which make intermediates or additives for products that reach the consumer in another form. The Company's products are distributed and serviced by several divisions as follows:

Chemicals Group consists of:

Petroleum Chemicals Division, which markets products made specifically for the petroleum industry, including "Ethyl" antiknock compounds, antioxidants, multipurpose additives for gasolines and diesel fuels, distillate conductivity additive, ignition improvers for diesel fuels, etc. The Petroleum Chemicals Division also renders important technical services to the automotive and petroleum industries, including cooperating in the development and use of improved engines and gasolines.

Industrial Chemicals Division, which markets a wide variety of industrial chemicals, including sodium, caustic soda, bromine chemicals, chlorinated solvents, vinyl chloride monomer, other chlorinated hydrocarbons, alcohols, alpha-olefins, olefin sulfonates, aluminum alkyls, antioxidants, orthoalkylated aromatics, agricultural chemical intermediates, and drug intermediates.

Plastics Group is subdivided into:

Dispenser Products Division, which is a leading producer of aerosol valves and plastic accessory and mechanical spray pumps.

IMCO Container Products Division, which produces and markets polyethylene, polypropylene, polyformaldehyde, polyvinyl chloride, and barrier resin bottles, as well as extruded flexible cellulosic packaging.

Metal Products Division, which produces decorative metal fittings and closures, collapsible and rigid aluminum tubes, drawn tinplate cans and aerosol valve mounting cups.

Molded Products Division, which makes injection molded plastic products, including closures, and has design and tool capabilities.

Pipe Products Division, which produces and markets PVC pipe and fittings for pressure water and for sewer applications, and polybutylene tubing for water service applications.

Polymer Products Division, which produces polyvinyl chloride (PVC) resins and compounds. PVC, one of the most versatile of all plastics, is used in such end products as PVC film, bottles, pipe, conduit, house siding, business machine parts, communication equipment, carpet backing, battery separators, and appliance housings.

VisQueen Film Products Division, which produces and markets: polyethylene films for packaging and industrial uses, building and agricultural uses, shrink, and disposables. PVC film, stretch, for packaging of red meat and fresh produce.

Ethyl International Group, including its divisions, is responsible for overseas production and distribution of Ethyl chemical products listed above under Chemicals Group and for world-wide oil and gas exploration, development, and production.

Aluminum Group, including its subsidiaries, is responsible for the production and distribution of a variety of aluminum products, including aluminum extrusions, windows, doors, and residential lawn buildings.

Arkansas Division produces and distributes ethylene dibromide, vinyl bromide, and other bromine chemicals.

Edwin Cooper Division is a world-wide manufacturer and marketer of lubricant additives for the petroleum industry.

SUBSIDIARIES (U.S. and Canada):

Ethyl Corporation of Canada Limited (wholly-owned) produces and distributes petroleum chemicals and industrial chemicals in Canada.

The William L. Bonnell Company, Inc. (wholly-owned) produces and markets aluminum extruded products.

Capitol Products Corporation (wholly-owned) produces and markets aluminum extrusions, aluminum windows and doors, and residential lawn buildings.

Elk Horn Coal Corporation (96%-owned) leases coal-bearing lands to others and owns approximately 130,000 acres of coal land, primarily in Eastern Kentucky.

PRINCIPAL LOCATIONS:

Headquarters - Richmond, Virginia

Executive Offices - Baton Rouge, Louisiana; Houston, Texas; New York, New York

Research and Development Laboratories - Baton Rouge, Louisiana; Detroit, Michigan; St. Louis and Kansas City, Missouri; Houston, Texas; Orangeburg, South Carolina; Terre Haute, Indiana; Bracknell, Berkshire, England

Engineering Department - Baton Rouge, Louisiana

Chemical Manufacturing Facilities - 10 plants in the U.S., Canada, and Greece

Plastics Manufacturing Facilities - 48 plants in the U.S. and Canada

Aluminum Extrusion and Fabrication Facilities - 6 plants in the U.S.

OTHER DATA:

1978 Net Sales - \$1,422,451,000; 1978 Net Income - \$82,698,000 --- \$4.24 per share

Number of Employees - approximately 16,000

Stock listings - The New York Stock Exchange, The Pacific Coast Stock Exchange, and The Toronto Stock Exchange

Ticker symbol - EY

PRINCIPAL PRODUCTS

<u>Product</u>	<u>Principal Uses</u>	<u>Raw Materials</u>
<u>TEL AREA</u>		
Tetraethyl lead (TEL)	"Ethyl" Antiknock Compounds	Lead, Sodium, Ethyl Chloride
Tetramethyl lead (TML)	"Ethyl" Antiknock Compounds	Lead, Sodium, Methyl Chloride
MLA Compounds (Mixed Lead Alkyls)	"Ethyl" Antiknock Compounds	TEL, TML
TELMEL (Physical Mixtures of TEL and TML)	"Ethyl" Antiknock Compounds	TEL, TML
"Ethyl" Antiknock Compound	Antiknock Agent for Gasoline	TEL, TML, Ethylene Dichloride, Ethylene Dibromide, Dye
<u>SODIUM AREA</u>		
Sodium Metal Chlorine Caustic Soda	TEL and TML Manufacture) Industrial Raw Material) Industrial Raw Material)	Salt Brine
<u>HYDROCARBON AREA</u>		
Ethyl Chloride	TEL Manufacture	Ethylene, Hydrogen Chloride
Ethylene Dichloride	Ingredient of Antiknock Compound; Vinyl Chloride	Ethylene, Chlorine or Ethylene, Hydrogen Chloride, Oxygen
Methyl Chloride	TML Manufacture, Synthetic Rubber, Chemical Intermediates	Methanol, Hydrogen Chloride
Vinyl Chloride Chlorinated Solvents (Trichloroethylene) Perchloroethylene)	Polyvinyl Chloride (PVC) Dry Cleaning and Industrial Degreasing	Ethylene Dichloride Vinyl Chloride, Ethylene Dichloride, Chlorine
<u>PVC AREA</u>		
Polyvinyl Chloride (PVC) Resins PVC Compounds	PVC Compounds PVC film, bottles, pipe, conduit, house siding, business machine parts, communication equipment, carpet backing, battery separators, and appliance housings	Vinyl Chloride PVC Resin, Vinyl Plasticizers and Stabilizers

E-06835

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SIMPLIFIED FLOW DIAGRAM **ETHYL CORPORATION** **BAYON ROUGE PLANT**



